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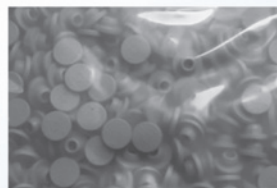
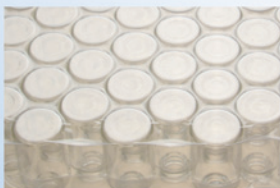
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Jedwards Intl
KIC Chemicals
Penta Mfg Co,
Div Penta Intl Corp
Scandinavian Formulas
Universal Preserv-
A-Chem
Vantage

ALOE
Barrington Nutritional
George Uhe Co
Jedwards Intl
Terry Labs LLC
Universal Preserv-
A-Chem

ALPHA BISABOLOL
George Uhe Co
KIC Chemicals

ALPRAZOLAM
Cambrex
Ceres Chemical Co
Pfizer CentreOne

ALUM, AMMONIUM
Universal Preserv-
A-Chem

ALUM, POTASSIUM
Avantor Performance
Materials
Universal Preserv-
A-Chem

ALUMINUM ACETATE
Scandinavian Formulas
Universal Preserv-
A-Chem

ALUMINUM ALKYL
Albemarle Corp
Alfa Chem
Chemtura Corp

ALUMINUM BROMIDE
Albemarle Corp

ALUMINUM CHLORIDE
Albemarle Corp
Universal Preserv-
A-Chem
Vantage

ALUMINUM CHLORIDE, HYDROUS
Scandinavian Formulas
Universal Preserv-
A-Chem

ALUMINUM CHLOROHYDRATE
Morre-Tec Industries
Universal Preserv-
A-Chem

ALUMINUM HYDROXIDE
Albemarle Corp
Alfa Chem
Brenntag Specialties
Generichem Corp
SPI Pharma
Universal Preserv-
A-Chem

ALUMINUM HYDROXIDE/ MAGNESIUM CARBONATE CO-DRIED GEL
Brenntag Specialties
Generichem Corp
SPI Pharma
Universal Preserv-
A-Chem

ALUMINUM HYDROXIDE/ MAGNESIUM HYDROXIDE CO-DRIED GEL
Alfa Chem
Brenntag Specialties
Generichem Corp
SPI Pharma
Universal Preserv-
A-Chem

ALUMINUM HYDROXIDE/ MAGNESIUM HYDROXIDE FLUID GEL
Doe Ingalls of
North Carolina
Generichem Corp
SPI Pharma
Universal Preserv-
A-Chem

ALUMINUM LACTATE
Alfa Chem
Doe Ingalls of
North Carolina
Generichem Corp
Universal Preserv-
A-Chem

ALUMINUM MONOSTEARATE
Alfa Chem
Imperial Systems
Parchem Fine
Specialty Chemicals
Universal Preserv-
A-Chem

ALUMINUM NITRATE
Allan Chemical Corp
Scandinavian Formulas


ALUMINUM OXIDE
Albemarle Corp
Brenntag Specialties
CB Minerals LLC
Scandinavian Formulas

ALUMINUM PHENOLSULFONATE
Alfa Chem
Capital Resin Corp
Universal Preserv-
A-Chem

ALUMINUM PHOSPHATE
Doe Ingalls of
North Carolina
SPI Pharma

ALUMINUM SILICATE
Arkema
Hexion, Epoxy,
Phenolic & Coating
Resins Div
Momentive
Performance Materials

ALUMINUM SULFATE
Allan Chemical Corp
Avantor Performance
Materials
Universal Preserv-
A-Chem



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ALUMINUM-ZIRCONIUM TETRACHLORO-HYDREX-GLYCINE
Alfa Chem
Universal Preserv-
A-Chem

ALUMINUM-ZIRCONIUM TRICHLORO-HYDREX-GLYCINE
Universal Preserv-
A-Chem

ALVERINE CITRATE
Alfa Chem

AMANTADINE HCL
Universal Preserv-
A-Chem

AMBROXOL
Cambrex

AMILORIDE HCL
Cambrex
Napp Technologies LLC
Spectrum Chemical
Mfg Corp

AMINACRINE HCL
Alfa Chem

AMINO ACID CHLORIDES
BioSpectra
Patheon,
Part of Thermo
Fisher Scientific

AMINO ACIDS (SEE ALSO SPECIFIC AMINO ACIDS)
Advanced Synthesis,
Chemical Div
Alfa Chem
Arkema
Avantor Performance
Materials
Barrington Nutritionals
BioSpectra
Charles Bowman & Co
Contract
Pharmaceutical Corp
Evonik Corp,
Health Care
Fortitech
Generichem Corp
Grace
Hawkins,
Pharmaceutical
Hexion, Epoxy,
Phenolic & Coating
Resins Div
Huber Engineered
Materials, Health &
Nutrition Div
INDOFINE Chemical Co
Kyowa Hakkō USA
PB Leiner USA
Penta Mfg Co,
Div Penta Intl Corp
Sekisui XenoTech, LLC
Universal Preserv-
A-Chem

AMINO ACIDS, BLOCKED
Evonik Corp,
Health Care
Grace

AMINO ACIDS, PROTECTED
Advanced Synthesis,
Chemical Div
Alfa Chem
Biolink Life Sciences
Evonik Corp,
Health Care
Grace
Sekisui XenoTech, LLC

AMINO ACIDS, T-BUTYLOXY-CARBONYL
Evonik Corp,
Health Care

AMINO CHLONIDINE
Alfa Chem

AMINOACETIC ACID
Alfa Aesar,
A Johnson Matthey Co
INDOFINE Chemical Co
Kyowa Hakkō USA
Universal Preserv-
A-Chem

AMINOANTIPYRINE
Universal Preserv-
A-Chem

AMINOPHYLLINE
BASF Corp, G-ENP
Ceres Chemical Co
Dastech Intl
Universal Preserv-
A-Chem
Vantage

AMIODARONE
Alfa Chem
Cambrex

AMMONIA
Asiameica Group
Universal Preserv-
A-Chem
Vantage

AMMONIATED GLYCERYL RHIZIN
Alfa Chem
Asiameica Group
MAFCO Worldwide
Corp
Penta Mfg Co,
Div Penta Intl Corp
Universal Preserv-
A-Chem

AMMONIUM ACETATE
Allan Chemical Corp
Avantor Performance
Materials
Universal Preserv-
A-Chem

AMMONIUM ALGINATE
Alfa Chem
Asiameica Group
Universal Preserv-
A-Chem

AMMONIUM BICARBONATE
Universal Preserv-
A-Chem
Vantage

AMMONIUM BISULFITE
Alfa Chem
Doe Ingalls of
North Carolina

AMMONIUM BROMIDE
Albemarle Corp
Alfa Chem
Morre-Tec Industries

AMMONIUM CARBONATE
Allan Chemical Corp
Universal Preserv-
A-Chem

AMMONIUM CHLORIDE
Arkema
Avantor Performance
Materials

AMMONIUM CITRATE
Alfa Chem
Jost Chemical Co
Universal Preserv-
A-Chem
Vantage

AMMONIUM FORMATE
Alfa Chem

AMMONIUM HEPARIN
Kraeber & Co GmbH

AMMONIUM HYDROXIDE
Arkema

AMMONIUM IODIDE
Alfa Chem

AMMONIUM LACTATE
Generichem Corp
Universal Preserv-
A-Chem

AMMONIUM LAURYL ETHER SULFATE
Chemtura Corp
Universal Preserv-
A-Chem

AMMONIUM LAURYL SULFATE
Chemtura Corp
Universal Preserv-
A-Chem

AMMONIUM OXALATE
Alfa Chem
Allan Chemical Corp

AMMONIUM PHOSPHATE, DIBASIC
Avantor Performance
Materials

AMMONIUM PHOSPHATE, MONOBASIC
Jost Chemical Co
Universal Preserv-
A-Chem

AMMONIUM PHOSPHATE, MONOBASIC
Avantor Performance
Materials
Doe Ingalls of
North Carolina
Jost Chemical Co
Universal Preserv-
A-Chem

AMMONIUM SALICYLATE
Universal Preserv-
A-Chem

AMMONIUM SULFATE
Allan Chemical Corp
Avantor Performance
Materials
BioSpectra
Hawkins,
Pharmaceutical
Jost Chemical Co
Universal Preserv-
A-Chem

AMMONIUM SULFITE
Alfa Chem
Vantage

AMMONIUM TARTRATE
Alfa Chem

AMMONIUM THIOGLYCOLATE
Vantage

AMMONIUM THIOSULFATE
Alfa Chem
Doe Ingalls of
North Carolina
Thomas Scientific
Vantage

AMMONIUM VALERATE
Penta Mfg Co,
Div Penta Intl Corp

AMODIAQUIN
Sekisui XenoTech, LLC

AMOXICILLIN
Doe Ingalls of
North Carolina

AMPHETAMINE SULFATE
Asiameica Group
Cambrex
Johnson Matthey,
Pharmaceutical
Materials

AMPICILLIN
Momentive
Performance Materials

AMPICILLIN SODIUM
Alfa Chem
Doe Ingalls of
North Carolina
Momentive
Performance Materials

AMYL ESTERS
INDOFINE Chemical Co
Penta Mfg Co,
Div Penta Intl Corp

AMYL NITRITE
FAR Chemical

AMYRIS OIL
Asiameica Group

ANETHOLE
Gelant Co
Penta Mfg Co,
Div Penta Intl Corp

ANILINES
Albemarle Corp

ANISE OIL
Gelant Co
George Uhe Co
KIC Chemicals
Penta Mfg Co,
Div Penta Intl Corp

ANISIC ACID
Penta Mfg Co,
Div Penta Intl Corp

ANISIC ALCOHOL, P-METHOXYBENZYL ALCOHOL
INDOFINE Chemical Co
Penta Mfg Co,
Div Penta Intl Corp

ANISIC ALDEHYDE, TECHNICAL
Gelant Co
Penta Mfg Co,
Div Penta Intl Corp

ANISOLE
Alfa Aesar,
A Johnson Matthey Co
George Uhe Co
INDOFINE Chemical Co
Penta Mfg Co,
Div Penta Intl Corp

ANISOLE, TECHNICAL
INDOFINE Chemical Co

ANNATTO
Brenntag North America

ANTI-COUNTERFEITING
Micro-Tracers
WIPOTEC-OCS

ANTIBIOTICS (SEE ALSO SPECIFIC ANTIBIOTICS)
AIC

Corden Pharma
Doe Ingalls of
North Carolina
Wako Chemicals USA,
Lab Chemicals Div

ANTIBODIES

Alfa Chem
Avidity LLC
Doe Ingalls of
North Carolina
Goodwin Biotechnology
Lampire Biological Labs
Sekisui XenoTech, LLC
Wako Chemicals USA,
Lab Chemicals Div

ANTICAKING AGENTS

Albemarle Corp
Alfa Chem
Arkema
Biddle Sawyer Corp
Brenntag North America
Brenntag Specialties
Grain Processing Corp
Huber Engineered
Materials, Health &
Nutrition Div

ANTI-FOAM AGENTS

Arkema
Momentive
Performance Materials

ANTI-FOAM AGENTS, FERMENTATION

Brenntag North America
Momentive
Performance Materials

ANTIMONY OXIDE

Albemarle Corp
Alfa Aesar,
A Johnson Matthey Co
Hexion, Epoxy,
Phenolic & Coating
Resins Div
Parchem Fine
Specialty Chemicals
Soltec Ventures

ANTIOXIDANTS

Albemarle Corp
Arkema
Brenntag North America
Charles Bowman & Co
Chemtura Corp
DSM Nutritional
Products LLC
George Uhe Co
KIC Chemicals
Penta Mfg Co,
Div Penta Intl Corp
Seppic,
Pharmaceutical Div

ANTIPIRYRINE
Penta Mfg Co,
Div Penta Intl Corp

ANTISERA TO HUMAN PROTEINS
Wako Chemicals USA,
Lab Chemicals Div

APROTININ
Kraeber & Co GmbH

AQUEOUS POLYMERIC DISPERSION
MantroseHaeuser Co

ASCORBIC ACID

AIC
Allan Chemical Corp
Arkema
Barrington Nutritionals
BASF Corp, G-ENP
Brenntag North America
Charles Bowman & Co
Contract
Pharmaceutical Corp
DSM Nutritional
Products LLC
Fortitech
Hawkins,
Pharmaceutical
Helm New York
Huber Engineered
Materials, Health &
Nutrition Div
KIC Chemicals
Scandinavian Formulas
SuzhouChem
Thomas Scientific
Vantage
Wako Chemicals USA,
Lab Chemicals Div

ASPARAGINE MONOHYDRATE
Penta Mfg Co,
Div Penta Intl Corp

ASPARTAME

Brenntag North America
Helm New York
KIC Chemicals
SuzhouChem
Vantage

ASPARTATE SALTS (L AND D,L)

Kyowa Hakkō USA
Seppic,
Pharmaceutical Div
Vantage

ATENOLOL

Parchem Fine
Specialty Chemicals

ATORVASTATIN

Hetero, Custom
Pharmaceutical
Services

ATROPINE SULFATE

Ceres Chemical Co
Dastech Intl

ATTAPULGITE

CB Minerals LLC

AZITHROMYCIN

Hetero, Custom
Pharmaceutical
Services

AZURE

Alfa Chem

BACITRACIN

AIC
Napp Technologies LLC

BACITRACIN ZINC

AIC
Napp Technologies LLC

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CARBOHYDRATES



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& ONCOLOGY



INJECTABLES



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ASCO
June 1-5, 2018
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- BALSAM PERU**
KIC Chemicals
Pangaea Sciences
- BARIUM (METAL)**
Alfa Chem
- BARIUM ACETATE**
Alfa Aesar,
A Johnson Matthey Co
Allan Chemical Corp
Soltec Ventures
- BARIUM CHLORIDE**
Arkema
- BARIUM FLUORIDE**
Alfa Aesar,
A Johnson Matthey Co
Soltec Ventures
- BARIUM HYDROXIDE**
Alfa Aesar,
A Johnson Matthey Co
Allan Chemical Corp
Soltec Ventures
- BARIUM NITRATE**
Allan Chemical Corp
Soltec Ventures
- BARIUM SULFATE**
AIC
Alfa Chem
Arkema
Brenntag Specialties
Hexion, Epoxy,
Phenolic & Coating
Resins Div
Scandinavian Formulas
- BASIL OIL**
George Uhe Co
Jedwards Intl
KIC Chemicals
- BAY OIL**
Alfa Chem
George Uhe Co
- BEEF EXTRACTS**
George Uhe Co
- BEEF MARROW POWDER**
Scandinavian Formulas
- BEESWAX**
Alfa Chem
Brenntag Specialties
CoKEM Assocs
Croda, Health Care
Frank B Ross Co
Jedwards Intl
Mutchler Pharmaceutical
Ingredients
Scandinavian Formulas
Strahl & Pitsch
- BEESWAX, SYNTHETIC**
Brenntag Specialties
Frank B Ross Co
Mutchler Pharmaceutical
Ingredients
Scandinavian Formulas
Strahl & Pitsch
- BEHENYL ALCOHOL**
Vantage
- BENTONITE**
CB Minerals LLC
CoKEM Assocs
Vanderbilt Minerals LLC
- BENZAL ACETONE**
Alfa Chem
INDOFINE Chemical Co
- BENZALDEHYDE**
Arkema
INDOFINE Chemical Co
- BENZALKONIUM CHLORIDE**
AIC
Alfa Chem
Lonza
- BENZILIC ACID**
Alfa Aesar,
A Johnson Matthey Co
- BENZOATE**
Napp Technologies LLC
Parchem Fine
Specialty Chemicals
Scandinavian Formulas
- BENZOFURAZAN 1-OXIDE**
Advanced Synthesis,
Chemical Div
- BENZOIC ACID**
Dastech Intl
KIC Chemicals
Napp Technologies LLC
- BENZONATATE**
Albemarle Corp
BASF Corp, G-ENP
Ceres Chemical Co
- BENZOPHENONE**
Arkema
- BENZOTRIFLUORIDE DERIVATIVES**
Kingchem LLC
- BENZOYL PEROXIDE**
Arkema
Cambrex
- BENZTROPINE MESYLATE**
Alfa Chem
- BENZYL ACETATE**
Allan Chemical Corp
Helm New York
INDOFINE Chemical Co
Penta Mfg Co,
Div Penta Intl Corp
- BENZYL ALCOHOL**
Allan Chemical Corp
Arkema
Avantor Performance
Materials
INDOFINE Chemical Co
Penta Mfg Co,
Div Penta Intl Corp
Scandinavian Formulas
Vantage
- BENZYL BENZOATE**
Allan Chemical Corp
Helm New York
INDOFINE Chemical Co
Penta Mfg Co,
Div Penta Intl Corp
Scandinavian Formulas
Vantage
- BENZYL BUTYRATE**
Penta Mfg Co,
Div Penta Intl Corp
- BENZYL CHLORIDE**
Arkema
INDOFINE Chemical Co
- BENZYL CINNAMATE**
Penta Mfg Co,
Div Penta Intl Corp
- BENZYL CYANIDE**
Arkema
INDOFINE Chemical Co
- BENZYL METHYL KETONE**
Alfa Chem
INDOFINE Chemical Co
Scandinavian Formulas
- BENZYL PROPIONATE**
Penta Mfg Co,
Div Penta Intl Corp
- BENZYL SALICYLATE**
Penta Mfg Co,
Div Penta Intl Corp
- BENZYL SUCCINATE**
INDOFINE Chemical Co
- BENZYL VALERATE**
Penta Mfg Co,
Div Penta Intl Corp
- BENZYLACETONE, 4-PHENYL-2-BUTANONE**
Advanced Synthesis,
Chemical Div
INDOFINE Chemical Co
Penta Mfg Co,
Div Penta Intl Corp
- BENZYLIDENE ACETONE**
Advanced Synthesis,
Chemical Div
Penta Mfg Co,
Div Penta Intl Corp
- BERGAMOT OIL**
George Uhe Co
KIC Chemicals
Penta Mfg Co,
Div Penta Intl Corp
- BETAINE HCL**
Generichem Corp
Napp Technologies LLC
- BETAXOLOL**
Napp Technologies LLC
- BETHANECHOL CHLORIDE**
BASF Corp, G-ENP
Ceres Chemical Co
- BILE ACIDS**
Marcor Development
Corp
Pfizer CentreOne
- BILE SALTS**
American Labs
- BIOADHESIVES**
ProteinLabs
- BIOCIDES**
Albemarle Corp
Arkema
- BIOTIN**
Charles Bowman & Co
Contract
Pharmaceutical Corp
Doe Ingalls of
North Carolina
DSM Nutritional
Products LLC
Generichem Corp
Helm New York
Soltec Ventures
SuzhouChem
- BIS TRIS**
BioSpectra
- BIS (TRIMETHYLSILYL) ACETAMIDE**
Advanced Synthesis,
Chemical Div
- BISACODYL**
Cambrex
Napp Technologies LLC
- BISMUTH**
5N Plus Wisconsin
Fairfield
AIC
George Uhe Co
- BISMUTH AMMONIUM CITRATE**
5N Plus Wisconsin
Fairfield
- BISMUTH OXIDE**
5N Plus Wisconsin
Fairfield
- BISMUTH OXYCHLORIDE**
5N Plus Wisconsin
Fairfield
Alfa Aesar,
A Johnson Matthey Co
- BISMUTH SALTS**
5N Plus Wisconsin
Fairfield
AIC
Alfa Aesar,
A Johnson Matthey Co
George Uhe Co
Parchem Fine
Specialty Chemicals
- BISMUTH SUBGALLATE**
5N Plus Wisconsin
Fairfield
AIC
- BISMUTH SUBNITRATE**
5N Plus Wisconsin
Fairfield
AIC
Vantage
- BISMUTH SUBSALICYLATE**
5N Plus Wisconsin
Fairfield
AIC
Contract
Pharmaceutical Corp
George Uhe Co
- BISMUTH TRIBROMOPHENATE**
5N Plus Wisconsin
Fairfield
- BISMUTH TRIOXIDE**
5N Plus Wisconsin
Fairfield
Doe Ingalls of
North Carolina
- BIXIN**
INDOFINE Chemical Co
OakBark Corp
- BLOCKING AGENTS**
Albemarle Corp
Centerchem,
Biochemicals &
Diagnostics Div
Electron Microscopy
Sciences
Gelest
Lampire Biological Labs
OakBark Corp
- BLOOD DERIVATIVES**
Kraeber & Co GmbH
Lampire Biological Labs
Worthington
Biochemical Corp
- BORATES**
Albemarle Corp
The Dow Chemical
Company in North
Andover, Process
Chemicals Div
- BORAX**
Arkema
- BORIC ACID**
Avantor Performance
Materials
Doe Ingalls of
North Carolina
Electron Microscopy
Sciences
- BORON TRIFLUORIDE AND DERIVATIVES**
Advanced Synthesis,
Chemical Div
Arkema
Regis Technologies,
Custom Pharma
Richman Chemical
- BORON TRIOXIDE**
Albemarle Corp
Alfa Chem
- BOTANICAL EXTRACTS**
Charles Bowman & Co
Fortitech
George Uhe Co
Morre-Tec Industries
OakBark Corp
- BOVINE ALBUMIN**
Electron Microscopy
Sciences
Kraeber & Co GmbH
Lampire Biological Labs
ProteinLabs
Worthington
Biochemical Corp
- BOVINE THROMBIN**
Kraeber & Co GmbH
ProteinLabs
- BRAND PROTECTION**
Micro-Tracers
- BROMINE**
Albemarle Corp
Arkema
- BROMOBENZENE**
Morre-Tec Industries
- BROMOETHYLAMINE HYDROBROMIDE**
INDOFINE Chemical Co
- BROMOFORM**
Albemarle Corp
Alfa Aesar,
A Johnson Matthey Co
Morre-Tec Industries
- BROMOTRIMETHYL-SILANE**
Gelest
OakBark Corp
- BROMPHENIRAMINE MALEATE**
AIC
Asiamerica Group
Contract
Pharmaceutical Corp
Dastech Intl
Marcor Development
Corp
Napp Technologies LLC
- BROMTHYMOL BLUE**
Asiamerica Group
- BUCLIZINE**
Asiamerica Group
- BUCLIZINE HCL**
Asiamerica Group
- BUPIVACAINE HCL**
Asiamerica Group
BASF Corp, G-ENP
Cambrex
Ceres Chemical Co
Napp Technologies LLC
Scandinavian Formulas
- BUPRENORPHINE HCL**
Ceres Chemical Co
Johnson Matthey,
Pharmaceutical
Materials
Scandinavian Formulas
Siegfried (USA)
- BUSPIRONE HCL**
Asiamerica Group
- BUTABARBITAL, SODIUM, SALT**
Scandinavian Formulas
- BUTALBITAL**
Asiamerica Group
Pisgah Labs
Siegfried (USA)
- BUTENEDIOL**
Asiamerica Group
- BUTYL ACETATE**
Asiamerica Group
Parchem Fine
Specialty Chemicals
Penta Mfg Co,
Div Penta Intl Corp
- BUTYL BUTYRATE**
INDOFINE Chemical Co
Penta Mfg Co,
Div Penta Intl Corp
- BUTYL CAPROATE**
INDOFINE Chemical Co
Penta Mfg Co,
Div Penta Intl Corp
Scandinavian Formulas
- BUTYL CINNAMATE**
INDOFINE Chemical Co
Penta Mfg Co,
Div Penta Intl Corp
- BUTYL ETHERS**
Vantage
- BUTYL ISOBUTYRATE**
Albemarle Corp
Penta Mfg Co,
Div Penta Intl Corp
- BUTYL LACTATE**
Penta Mfg Co,
Div Penta Intl Corp
- BUTYL PROPIONATE**
Advanced Synthesis,
Chemical Div
Penta Mfg Co,
Div Penta Intl Corp
- BUTYL STEARATE**
Penta Mfg Co,
Div Penta Intl Corp
- BUTYL UNDECYLENATE**
Advanced Synthesis,
Chemical Div
Penta Mfg Co,
Div Penta Intl Corp

BUTYLATED HYDROXYANISOLE
Mutchler Pharmaceutical
Ingredients
Penta Mfg Co,
Div Penta Intl Corp
Vantage

BUTYLATED HYDROXYTOLUENE
Penta Mfg Co,
Div Penta Intl Corp

BUTYL PARABEN (BUTYL-P-HYDROXY-BENZOATE)
Mutchler Pharmaceutical
Ingredients
Napp Technologies LLC
Penta Mfg Co,
Div Penta Intl Corp

BUTYRIC ACID
Penta Mfg Co,
Div Penta Intl Corp

CADMIUM
Scandinavian Formulas
Soltec Ventures
Vantage

CADMIUM NITRATE
Alfa Aesar,
A Johnson Matthey Co
Scandinavian Formulas
Soltec Ventures

CAFFEINE
Alfa Chem
Barrington Nutritionals
BASF Corp, G-ENP
Ceres Chemical Co
Contract Pharmacal Corp
Dastech Intl
KIC Chemicals
Napp Technologies LLC
Pharmsolv LLC
SuzhouChem

CAFFEINE AND SODIUM BENZOATE
Scandinavian Formulas

CAJEPUT OIL (OIL OF CAJEPUT)
KIC Chemicals

CALAMINE (ZINC OXIDE)
Barrington Nutritionals
Brenntag Specialties
CB Minerals LLC
Dastech Intl

CALCIUM ACETATE
Alfa Aesar,
A Johnson Matthey Co
Allan Chemical Corp
Avantor Performance
Materials
Richman Chemical

CALCIUM ALGINATE
FMC Corp,
FMC BioPolymer

CALCIUM AMINO ACID CHELATE
Generichem Corp

CALCIUM ASCORBATE
KIC Chemicals

CALCIUM BROMIDE
Albemarle Corp
Morre-Tec Industries
Scandinavian Formulas

CALCIUM CARBONATE
Alfa Aesar,
A Johnson Matthey Co
Allan Chemical Corp

Arkema
Avantor Performance
Materials
Barrington Nutritionals
Biddle Sawyer Corp
Brenntag Specialties
CB Minerals LLC
Charles Bowman & Co
Chemtech Specialties
Contract
Pharmaceutical Corp
Doe Ingalls of
North Carolina
Generichem Corp
Huber Engineered
Materials, Health &
Nutrition Div
Jost Chemical Co
Momentive
Performance Materials
Mutchler Pharmaceutical
Ingredients
Specialty Minerals
SPI Pharma

CALCIUM CARBONATE, DIRECT-COMPRESSION
Biddle Sawyer Corp
CB Minerals LLC
SPI Pharma

CALCIUM CARBOXYMETHYL CELLULOSE
Biddle Sawyer Corp
Mutchler Pharmaceutical
Ingredients

CALCIUM CHLORIDE
AIC
Alfa Aesar,
A Johnson Matthey Co
Allan Chemical Corp
Arkema
Avantor Performance
Materials
Hexion, Epoxy,
Phenolic & Coating
Resins Div
Parchem Fine
Specialty Chemicals
Thomas Scientific
Wako Chemicals USA,
Lab Chemicals Div

CALCIUM CITRATE
Barrington Nutritionals
Generichem Corp
George Uhe Co
Helm New York
Jost Chemical Co
Scandinavian Formulas

CALCIUM D-SACCHARATE
AIC
George Uhe Co
Marcor Development
Corp

CALCIUM GLUCONATE
AIC
Generichem Corp

CALCIUM GLYCERO-PHOSPHATE
George Uhe Co
Seppic,
Pharmaceutical Div

CALCIUM GLYCINATE
Generichem Corp
Parchem Fine
Specialty Chemicals
Scandinavian Formulas

CALCIUM HYDROXIDE
Jost Chemical Co

CALCIUM HYPOPHOSPHITE
Doe Ingalls of
North Carolina

CALCIUM IODIDE
Alfa Aesar,
A Johnson Matthey Co
Alfa Chem

CALCIUM LACTATES
Alfa Chem
Generichem Corp
Jost Chemical Co
Parchem Fine
Specialty Chemicals

CALCIUM LEUCOVORIN
George Uhe Co

CALCIUM OROTATE
Generichem Corp
Kyowa Hakko USA

CALCIUM PANTOTHENATE
Alfa Chem
BASF Corp, G-ENP
Charles Bowman & Co
DSM Nutritional
Products LLC
Helm New York

CALCIUM PEROXIDE
Alfa Chem
Asiameica Group

CALCIUM PHOSPHATE
Arkema
Asiameica Group
Barrington Nutritionals
Contract
Pharmal Corp
Fuji Chemical
Industries USA
Jost Chemical Co
JRS Pharma GmbH &
Co KG
Mutchler Pharmaceutical
Ingredients

CALCIUM PROPIONATE
Alfa Chem
Brenntag North America

CALCIUM PYROPHOSPHATE
Brenntag North America

CALCIUM SACCHARATE
SuzhouChem
Vantage

CALCIUM SACCHARIN
Penta Mfg Co,
Div Penta Intl Corp

CALCIUM SILICATE
Alfa Chem
Huber Engineered
Materials, Health &
Nutrition Div
Mutchler Pharmaceutical
Ingredients

CALCIUM STEARATE
AIC
Allan Chemical Corp
Arkema
Asiameica Group
Barrington Nutritionals
Brenntag Specialties
Chemtura Corp
Generichem Corp
KIC Chemicals
Mutchler Pharmaceutical
Ingredients

CALCIUM SULFATE DIRECT COMPRESSIBLE
CB Minerals LLC
JRS Pharma GmbH &
Co KG

CALCIUM SULFATE, ANHYDROUS
Alfa Aesar,
A Johnson Matthey Co
Asiameica Group
Brenntag North America
Brenntag Specialties
CB Minerals LLC
WA Hammond Drierite
Co Ltd

CALCIUM SULFATE, DIHYDRATE
CB Minerals LLC
JRS Pharma
WA Hammond Drierite
Co Ltd

CALCIUM THIOGLYCOLATE
Alfa Chem

CAMPHOR
Asiameica Group
Parchem Fine
Specialty Chemicals

CAMPHOR OIL
George Uhe Co
KIC Chemicals
Penta Mfg Co,
Div Penta Intl Corp

CAMPHOR, SYNTHETIC
Asiameica Group
George Uhe Co
Penta Mfg Co,
Div Penta Intl Corp

CAMPTOTHECIN
Alfa Chem

CANANGA OIL
Jedwards Intl

CAPRIC ACID (DECANOIC)
Arista Industries
Brenntag North America
Chemtura Corp
KIC Chemicals
Penta Mfg Co,
Div Penta Intl Corp

CAPROIC ACID (HEXANOIC)
Arista Industries
Brenntag North America
KIC Chemicals
Penta Mfg Co,
Div Penta Intl Corp

CAPRYL ALCOHOL (OCTANOL)
Penta Mfg Co,
Div Penta Intl Corp

CAPRYLATE
Doe Ingalls of
North Carolina
Gattafossé USA,
Pharmaceutical Div
Napp Technologies LLC

CAPRYLIC ACID (OCTANOIC)
Arista Industries
KIC Chemicals
Napp Technologies LLC
Penta Mfg Co,
Div Penta Intl Corp

CAPSAICIN
Advanced Synthesis,
Chemical Div
George Uhe Co

INDOFINE Chemical Co
Penta Mfg Co,
Div Penta Intl Corp
Richman Chemical

CARAMEL
Brenntag North America
Vantage

CARAWAY
Vantage

CARAWAY OIL
George Uhe Co
KIC Chemicals
Penta Mfg Co,
Div Penta Intl Corp

CARBAMAZEPINE
BASF Corp, G-ENP
Ceres Chemical Co
Parchem Fine
Specialty Chemicals

CARBETAPENTANE CITRATE
Contract
Pharmal Corp

CARBINOXARMIN MALEATE
Contract
Pharmal Corp
Napp Technologies LLC

CARBOMER
Alfa Chem
Brenntag North America
Lubrizol LifeSciences
Mutchler Pharmaceutical
Ingredients

CARBON DIOXIDE
Airgas
BOC, A member of
The Linde Group
Praxair

CARBON DISULFIDE
Arkema
Doe Ingalls of
North Carolina
Thomas Scientific

CARBON TETRACHLORIDE
Advanced Synthesis,
Chemical Div
Arkema
Asiameica Group
Doe Ingalls of
North Carolina

CARBON, ACTIVATED (CHARCOAL, ACTIVATED)
Advanced Synthesis,
Chemical Div
Asiameica Group
Flanders Corp,
Containment Products

CARBONATES
Avantor Performance
Materials
Barrington Nutritionals

CARBOXYLIC ACIDS AND SALTS, PERFLUORINATED
Kingchem LLC

CARBOXYMETHYL-CELLULOSE SODIUM
Ashland,
Pharmaceutical
Barrington Nutritionals
Blanver
George Uhe Co
JRS Pharma
Mutchler Pharmaceutical
Ingredients

CARDAMOM OIL, SEED
George Uhe Co

CARISOPRODOL
BASF Corp, G-ENP
Ceres Chemical Co

CARMINE
Brenntag North America
Vantage

CARMUSTINE
Johnson Matthey,
Pharmaceutical
Materials

CAROTENOID COLORS
BASF Corp, G-ENP
Brenntag North America
DSM Nutritional
Products LLC

CARRAGEENAN CITRATE
Alfa Chem
Brenntag North America
Brenntag Specialties
CP Kelco,
A JM Huber Co
FMC Corp,
FMC BioPolymer
Gumix Intl
Parchem Fine
Specialty Chemicals
TIC Gums

CARVONE
Gelant Co
Penta Mfg Co,
Div Penta Intl Corp

CASCARA SAGRADA
Contract
Pharmal Corp

CASEIN
Hexion, Epoxy,
Phenolic & Coating
Resins Div
ProteinLabs

CASEIN HYDROLYSATE
American Labs
Kerry
Marcor Development
Corp

CASEINATES
Brenntag North America
Scandinavian Formulas

CASSIA OIL
Arista Industries
Penta Mfg Co,
Div Penta Intl Corp

CASTOR OIL
Arista Industries
Arkema
Asiameica Group
BASF Corp, G-ENP
Jedwards Intl
KIC Chemicals
Morre-Tec Industries
Mutchler Pharmaceutical
Ingredients
Parchem Fine
Specialty Chemicals
Penta Mfg Co,
Div Penta Intl Corp

CATALASE
ProteinLabs
Wako Chemicals USA,
Lab Chemicals Div
Worthington
Biochemical Corp

CATECHOL
Vantage

CODEINE

Johnson Matthey,
Pharmaceutical
Materials

**CODEINE
PHOSPHATE**

Johnson Matthey,
Pharmaceutical
Materials
Parchem Fine
Specialty Chemicals
Siegfried (USA)

COELENTERAZINE

Regis Technologies,
Custom Pharma

COLISTIN SULFATE

Wako Chemicals USA,
Lab Chemicals Div

COLLAGEN

Arista Industries
Biddle Sawyer Corp
EmboCaps by Suheung
Gattefossé USA,
Pharmaceutical Div
Kraeber & Co GmbH
Lampire Biological Labs
PB Leiner USA
ProteinLabs
Suheung America Corp
Vantage
Vernon Walden
Worthington
Biochemical Corp

**COLLAGEN
HYDROLYSATE**

American Labs
Arista Industries
EmboCaps by Suheung
Gattefossé USA,
Pharmaceutical Div
Kraeber & Co GmbH
Marcor Development
Corp
PB Leiner USA
Suheung America Corp

COLLODION

Penta Mfg Co,
Div Penta Intl Corp

**COLOR
DISPERSIONS**

Seppic,
Pharmaceutical Div

COLORS, NATURAL

MantroseHaeuser Co
Scandinavian Formulas

**COMPLEX
CARBOHYDRATES
(SEE ALSO SPECIFIC
CARBOHYDRATES)**

Grain Processing Corp
Kraeber & Co GmbH

**CONTROLLED
SUBSTANCE
DRUGS -
TAPENTADOL**

Piramal Pharma
Solutions

COPPER ACETATE

Alfa Aesar,
A Johnson Matthey Co
Allan Chemical Corp
Hawkins,
Pharmaceutical

COPPER BROMIDE

Alfa Aesar,
A Johnson Matthey Co
Morre-Tec Industries

**COPPER
CARBONATE**

Alfa Aesar,
A Johnson Matthey Co
Generichem Corp
Jost Chemical Co

COPPER CITRATE

George Uhe Co
Jost Chemical Co

**COPPER
GLUCONATE**

Generichem Corp
Jost Chemical Co
Vernon Walden

COPPER GLYCINATE

Generichem Corp

COPPER IODIDE

Alfa Aesar,
A Johnson Matthey Co
Allan Chemical Corp

COPPER NITRATE

Alfa Aesar,
A Johnson Matthey Co
Allan Chemical Corp

COPPER OXIDE

Jost Chemical Co

COPPER SULFATE

AIC
Alfa Aesar,
A Johnson Matthey Co
Allan Chemical Corp
Asiamerica Group
Generichem Corp
George Uhe Co
Helm New York
Jost Chemical Co

CORIANDER OIL

George Uhe Co

CORN OIL

Arista Industries
Croda, Health Care
KIC Chemicals

**CORN STARCH,
PREGELATINIZED**

Colorcon
Grain Processing Corp
Mutchler Pharmaceutical
Ingredients

**CORN SYRUP
SOLIDS**

Grain Processing Corp

CORTISONE

AIC
Dastech Intl

**CORTISONE
ACETATE**

AIC
Dastech Intl

**COSMETIC
CHEMICALS**

Albemarle Corp
Allan Chemical Corp
Arkema
Brenntag Specialties
Chemtura Corp
Croda, Health Care
Dastech Intl
DSM Nutritional
Products LLC
Frank B Ross Co
Gattefossé USA,
Pharmaceutical Div
Kraeber & Co GmbH
Lonza
Momentive
Performance Materials
Napp Technologies LLC
Ortec
Regis Technologies,
Custom Pharma

**COTTONSEED
HYDROLYSATE**

Kerry

COTTONSEED OIL

Arista Industries
Croda, Health Care
Jedwards Intl
KIC Chemicals
Penta Mfg Co,
Div Penta Intl Corp

**COTTONSEED OIL,
HYDROGENATED**

ABITEC Corp
Arista Industries
JRS Pharma GmbH &
Co KG
Mutchler Pharmaceutical
Ingredients

COUMARIN

Alfa Aesar,
A Johnson Matthey Co
Asiamerica Group

CREAM BASES

CoKEM Assocs
Gattefossé USA,
Pharmaceutical Div
Napp Technologies LLC

**CREATINE
MONOHYDRATE**

Advanced Synthesis,
Chemical Div
Asiamerica Group
Marcor Development
Corp
Parchem Fine
Specialty Chemicals
Pharmsolv LLC
Richman Chemical

**CROMOLYN SODIUM
SALT**

Napp Technologies LLC
Parchem Fine
Specialty Chemicals

**CROSCARMELOSE
SODIUM**

Asahi Kasei Chemical
Corp/Asahi Kasei
America, Functional
Additives Div
Asiamerica Group
Barrington Nutritionals
Biddle Sawyer Corp
Blanver
DFE Pharma
FMC Corp,
FMC BioPolymer
Generichem Corp
JRS Pharma
JRS Pharma GmbH &
Co KG
Mutchler Pharmaceutical
Ingredients
Parchem Fine
Specialty Chemicals

CROSPVIDONE

Ashland,
Pharmaceutical
Asiamerica Group
BASF Corp, G-ENP
Biddle Sawyer Corp
Generichem Corp
George Uhe Co
International Specialty
Products
JRS Pharma GmbH &
Co KG
Mutchler Pharmaceutical
Ingredients

**CROSS-LINKED
CARBOXYMETHYL
CELLULOSE**

Asiamerica Group
Brenntag Specialties
FMC Corp,
FMC BioPolymer
Generichem Corp

JRS Pharma GmbH &
Co KG
Mutchler Pharmaceutical
Ingredients

CUPFERRON

Albemarle Corp
Richman Chemical

CUPRIC SULFATE

Allan Chemical Corp
Generichem Corp
Jost Chemical Co

CYANOACETIC ACID

Asiamerica Group
Scandinavian Formulas

**CYANOGEN
BROMIDE**

FAR Chemical

**CYCLOBENZAPRINE
HCL**

Aptalis Pharmaceutical
Technologies

CYCLODEXTRINS

Ashland,
Pharmaceutical

**CYCLOHEXANE-
CARBONYL
CHLORIDE**

Advanced Synthesis,
Chemical Div

CYCLOHEXANONE

Penta Mfg Co,
Div Penta Intl Corp
Scandinavian Formulas

**CYCLOHEXYL
BROMIDE**

Albemarle Corp
Arkema
FAR Chemical
Morre-Tec Industries

**CYCLOHEXYL ETHYL
ALCOHOL**

Penta Mfg Co,
Div Penta Intl Corp

CYCLOPENTANONE

Penta Mfg Co,
Div Penta Intl Corp
Richman Chemical

CYCLOPHOSPHAMIDE

Hetero, Custom
Pharmaceutical
Services

CYSTEAMINE HCL

Dastech Intl
Richman Chemical

CYSTEINE

Charles Bowman & Co
Generichem Corp
Kyowa Hakko USA
Marcor Development
Corp
Scandinavian Formulas

**D-(-)-MANDELIC
ACID**

Alfa Aesar,
A Johnson Matthey Co
Morre-Tec Industries

D-MANNITOL

Avantor Performance
Materials
SPI Pharma

D-MENTHOL

George Uhe Co
Scandinavian Formulas

D-PHENYLGLYCINE

Regis Technologies,
Custom Pharma
Richman Chemical

**D-(-)
A-PHENYLGLYCINE**

Richman Chemical

D&C PIGMENTS

Brenntag North America

DACARBAZINE

Kyowa Hakko USA

**DECANOL (DECYL
ALCOHOL)**

Penta Mfg Co,
Div Penta Intl Corp

**DEHYDROACETIC
ACID**

Alfa Chem
Lonza

**DENATONIUM
BENZOATE**

Ceres Chemical Co

DEOXYCHOLIC ACID

Marcor Development
Corp
Soltec Ventures

**DEOXYRI-
BONUCLEASE**

Pangaea Sciences
Worthington
Biochemical Corp

DESIPRAMINE HCL

Ceres Chemical Co

**DEXBROMPHENIR-
AMINE MALEATE**

AIC

**DEXCHLORPHENIR-
AMINE MALEATE**

AIC
Napp Technologies LLC
Pfizer CentreOne

DEXTRATES

JRS Pharma
JRS Pharma GmbH &
Co KG
Mutchler Pharmaceutical
Ingredients

**DESTRO-
METHORPHAN**

AIC
Contract
Pharmaceutical Corp
Pharmsolv LLC

**DESTRO-
METHORPHAN
HYDROBROMIDE**

AIC
Contract
Pharmaceutical Corp
Dastech Intl
Napp Technologies LLC
Pharmsolv LLC

DEXTROSE

Avantor Performance
Materials
Brenntag North America
Mutchler Pharmaceutical
Ingredients
Paulaur Corp

DI-N-PROPYLAMINE

Asiamerica Group

**DI-TERT-BUTYL
DICARBONATE**

Albemarle Corp

**DIACETONE
ALCOHOL**

Brenntag North America

**DIAMMONIUM
PHOSPHATE**

Brenntag North America

DIASTASE

American Labs
Marcor Development Corp
ProteinLabs

DIATOMITE

Chemtech Specialties

DIAZEPAM

Cambrex

**DIBROMODIMETHYL
HYDANTOIN**

Albemarle Corp
Morre-Tec Industries

DIBUCAINE

BASF Corp, G-ENP
Ceres Chemical Co

DIBUCAINE HCL

BASF Corp, G-ENP
Ceres Chemical Co

**DICALCIUM
PHOSPHATE,
ANHYDROUS**

Jost Chemical Co
JRS Pharma
Mutchler Pharmaceutical
Ingredients

**DICALCIUM
PHOSPHATE,
DIHYDRATE**

AIC
Brenntag North America
JRS Pharma
Mutchler Pharmaceutical
Ingredients

**DICHLORODI-
METHYLHYDANTOIN**

Lonza

**DICLOFENAC
SODIUM**

Aptalis Pharmaceutical
Technologies
Sekisui XenoTech, LLC

DIETHYL MALONATE

Penta Mfg Co,
Div Penta Intl Corp

DIETHYL SULFATE

Advanced Synthesis,
Chemical Div

DIETHYL SULFIDE

Arkema
Momentive
Performance Materials
OakBark Corp

DIETHYLAMINE

Arkema

DIETHYLAMINE HCL

Arkema

**DIETHYLAMINO-
ETHANOL**

Arkema
Richman Chemical
Vantage

**DIETHYLAMINO-
ETHYL CHLORIDE**

Richman Chemical

**DIETHYLAMINO-
TRIMETHYLSILANE**

Brenntag Specialties
OakBark Corp

For vendor contact information, see Company Directory section.

DIETHYLENE GLYCOL
Brenntag North America

DIETHYLENE GLYCOL LAURATE
Lonza

DIETHYLENE GLYCOL MONOETHYL ETHER
Gattefossé USA,
Pharmaceutical Div
Richman Chemical

DIETHYLENE GLYCOL STEARATE
Lonza

DIGITOXIN
INDOFINE Chemical Co
Parchem Fine
Specialty Chemicals

DIGOXIN
INDOFINE Chemical Co
Parchem Fine
Specialty Chemicals

DIHYDROCODEINE TARTRATE
Johnson Matthey,
Pharmaceutical
Materials

DIHYDROXY-ACETOPHENONE
Advanced Synthesis,
Chemical Div
INDOFINE Chemical Co

DIHYDROXYANISOLE
INDOFINE Chemical Co

DIISOPROPYLAMINE
Arkema
Momentive
Performance Materials

DIISOPROPYL-DICHLOROSILANE
Brenntag Specialties
OakBark Corp

DILL OIL
George Uhe Co

DILTIAZEM HCL
Aptalis Pharmaceutical
Technologies
Cambrex
Piramal Pharma
Solutions

DIMETHICONE (POLYDIMETHYL-SILOXANE)
Brenntag North America
Momentive
Performance Materials

DIMETHYL PHTHALATE
Allan Chemical Corp
Parchem Fine
Specialty Chemicals

DIMETHYL SULFIDE
Arkema
Hexion, Epoxy,
Phenolic & Coating
Resins Div
OakBark Corp

DIMETHYL SULFOXIDE
Arkema
Avantor Performance
Materials
Hawkins,
Pharmaceutical

DIMETHYLAMINO-2-PROPANOL
Arkema

DIMETHYL-AMINOETHANOL
Richman Chemical

DI-OCTYL SODIUM SULFOSUCCINATE (DOCUSATE SODIUM)
AIC
Chemtura Corp
Contract
Pharmalac Corp
Cytec Industries,
Additive Technologies
Mutchler Pharmaceutical
Ingredients
Napp Technologies LLC

DIPEPTIDES
Evonik Corp,
Health Care

DIPHENHYDRAMINE CITRATE
Albemarle Corp
Contract
Pharmalac Corp
Dastech Intl

DIPHENHYDRAMINE HCL
AIC
Albemarle Corp
Aptalis Pharmaceutical
Technologies
Contract
Pharmalac Corp
Dastech Intl

DIPHENHYDRAMINE HCL
AIC
Albemarle Corp
Aptalis Pharmaceutical
Technologies
Contract
Pharmalac Corp
Dastech Intl
Marcor Development
Corp
Napp Technologies LLC

DIPHENYLMETHANE, BENZYL BENZENE
Arkema
Penta Mfg Co,
Div Penta Intl Corp

DIPHENYLSILANE
OakBark Corp

DIPOTASSIUM PHOSPHATE
Alfa Chem
Parchem Fine
Specialty Chemicals

DIPROPYLENE GLYCOL
KIC Chemicals

DISINFECTANTS
Albemarle Corp
Clordisys Solutions
Contec
Decon Labs
Doe Ingalls of
North Carolina
Lonza

DISULFIRAM
Kingchem LLC

DITHIOTHREITOL
Arkema
BioVectra
Doe Ingalls of
North Carolina
INDOFINE Chemical Co
Soltec Ventures

DL-10-CAMPHOR-SULFONIC ACID
Asiamerica Group

DOPAMINE HCL
BASF Corp, G-ENP
Ceres Chemical Co

DOXAZOSIN MONOMETHANE-SULFONATE
Ceres Chemical Co

DOXEPIN HCL
Napp Technologies LLC

DOXYLAMINE SUCCINATE
AIC
Ceres Chemical Co
Napp Technologies LLC

DRUG CONJUGATES
Corden Pharma

DYCLONINE HCL
Ceres Chemical Co
Napp Technologies LLC
Parchem Fine
Specialty Chemicals

DYES & PIGMENTS
Albemarle Corp

DYPHYLLINE
Dastech Intl

ECONAZOLE NITRATE
Napp Technologies LLC

EDETATE DISODIUM
AIC
Vantage

EGG PHOSPHATIDES
Vernon Walden

EGG PHOSPHOLIPIDS
Vernon Walden

ELASTOMERS
Arkema
Chemtura Corp
G-M-I
Hexion, Epoxy,
Phenolic & Coating
Resins Div
Momentive
Performance Materials
Vantage

EMULSION BASES
ABITEC Corp
Asiamerica Group
CoKEM Assocs
Croda, Health Care
Gattefossé USA,
Pharmaceutical Div

ENHANCERS, CHOCOLATE
Virginia Dare

ENZYMES (SEE ALSO SPECIFIC ENZYMES)
American Labs
Asiamerica Group
Avidity LLC
Kraeber & Co GmbH
Marcor Development
Corp
Pangaea Sciences
ProteinLabs
Wako Chemicals USA,
Lab Chemicals Div
Worthington
Biochemical Corp

EPHEDRINE AND SALTS
Dastech Intl

EPHEDRINE HCL
BASF Corp, G-ENP
Dastech Intl

EPICHLOROHYDRIN
Hexion, Epoxy,
Phenolic & Coating
Resins Div
Richman Chemical

EPINEPHRINE (ADRENALIN)
Cambrex

ERBIUM SALTS
Alfa Aesar,
A Johnson Matthey Co
Brenntag Specialties
Soltec Ventures

ERYTHROBIC ACID
KIC Chemicals

ERYTHROMYCIN AND DERIVATIVES
Helm New York

ERYTHRULOSE
Kraeber & Co GmbH
Napp Technologies LLC

ESTRONE
Parchem Fine
Specialty Chemicals

ETHOXYLATED AMINES
ABITEC Corp
Chemtura Corp
Croda, Health Care

ETHOXYLATED FATTY ACIDS
ABITEC Corp
Chemtura Corp
Croda, Health Care
Gattefossé USA,
Pharmaceutical Div

ETHOXYLATED FATTY ALCOHOLS
ABITEC Corp
Chemtura Corp
Croda, Health Care
Gattefossé USA,
Pharmaceutical Div
Lonza

ETHOXYLATED SORBITAN FATTY ACID ESTERS
Chemtura Corp
Croda, Health Care
Lonza

ETHYL 4-ETHOXYBENZOATE
INDOFINE Chemical Co

ETHYL ACETATE
Avantor Performance
Materials
Parchem Fine
Specialty Chemicals

ETHYL ACETOACETATE
Lonza

ETHYL ALCOHOL
Avantor Performance
Materials
Decon Labs
Grain Processing Corp

ETHYL AMINOBENZOATE (BENZOCAINE)
AIC
Napp Technologies LLC

ETHYL BROMIDE
Albemarle Corp

ETHYL BUTYL KETONE
Arkema

ETHYL CELLULOSE
Ashland,
Pharmaceutical
Brenntag Specialties
Rohm and Haas
Chemicals LLC,
The Dow Chemical Co

ETHYL LACTATE
Penta Mfg Co,
Div Penta Intl Corp

ETHYL LAURATE
Brenntag North America

ETHYL OLEATE
Croda, Health Care

ETHYL P-HYDROXY-BENZOATE
INDOFINE Chemical Co
Napp Technologies LLC

ETHYL PHENYL ACETATE, TECHNICAL
Arkema
Penta Mfg Co,
Div Penta Intl Corp

ETHYL VANILLIN
KIC Chemicals

ETHYLENE DICHLORIDE
Brenntag North America
Thomas Scientific

ETHYLENE GLYCOL
Avantor Performance
Materials
Brenntag North America
Julabo USA
Scandinavian Formulas

ETHYLENE GLYCOL MONOSTEARATE
Brenntag North America
Chemtura Corp
Gattefossé USA,
Pharmaceutical Div

ETHYLENE OXIDE
Airgas
BOC, A member of
The Linde Group
Brenntag North America
Clordisys Solutions

ETHYLENEDIAMINE
Arkema

ETHYLENEDIAMINE-TETRAACETIC ACID, POWDER
Brenntag North America

ETHYL PARABEN
Avantor Performance
Materials
Brenntag Specialties
Napp Technologies LLC

EUCALYPTOL
Arista Industries
Gelant Co
George Uhe Co
Scandinavian Formulas

EUCALYPTUS OIL
Arista Industries
Asiamerica Group
Gelant Co
Jedwards Intl
KIC Chemicals
Vantage

EUGENOL
Arista Industries
George Uhe Co
KIC Chemicals

EUROPIUM SALTS
Brenntag Specialties

FATTY ACID AMIDES
ABITEC Corp
Alfa Chem
Croda, Health Care

FATTY ACID ESTERS
ABITEC Corp
Croda, Health Care
Hexion, Epoxy,
Phenolic & Coating
Resins Div
KIC Chemicals
Napp Technologies LLC

FATTY ALCOHOL ETHERS
ABITEC Corp
Brenntag North America
Croda, Health Care

FATTY ALCOHOL SULFATES
Chemtura Corp
Croda, Health Care

FATTY ALCOHOLS
Alfa Chem
Arista Industries
Brenntag North America
Chemtura Corp
CoKEM Assocs
Croda, Health Care
Gattefossé USA,
Pharmaceutical Div
KIC Chemicals
Mutchler Pharmaceutical
Ingredients

FATTY OILS
Arista Industries
CoKEM Assocs
Croda, Health Care
DSM Nutritional
Products LLC
Jedwards Intl
Mutchler Pharmaceutical
Ingredients

FENNEL OIL
George Uhe Co
KIC Chemicals

FENOFIBRATE
Hetero, Custom
Pharmaceutical
Services

FENOPROFEN CALCIUM
Albemarle Corp

FENTANYL CITRATE
Cambrex
Johnson Matthey,
Pharmaceutical
Materials

FERMENTATION NUTRIENTS
George Uhe Co
Marcor Development
Corp

FERRIC AMMONIUM CITRATE
Asiamerica Group
Generichem Corp
Jost Chemical Co

FERRIC AMMONIUM SULFATE
Alfa Chem
Allan Chemical Corp

FERRIC CHLORIDE
Brenntag North America

FERRIC CITRATE
George Uhe Co
Jost Chemical Co

FERRIC NITRATE

Allan Chemical Corp
Asiameica Group

FERRIC OXIDE, RED

Asiameica Group
Brenntag Specialties
Soltec Ventures

FERROUS AMMONIUM SULFATE

Allan Chemical Corp
Doe Ingalls of
North Carolina
Jost Chemical Co

FERROUS CHLORIDE

George Uhe Co

FERROUS FUMARATE

Dastech Intl
Doe Ingalls of
North Carolina
Generichem Corp
Huber Engineered
Materials, Health &
Nutrition Div
Jost Chemical Co

FERROUS GLUCONATE

Brenntag North America
Generichem Corp
George Uhe Co
Jost Chemical Co

FERROUS LACTATE

Generichem Corp
Jost Chemical Co

FERROUS SULFATE

Allan Chemical Corp
Avantor Performance
Materials
Contract
Pharmaceutical Corp
Dastech Intl
Doe Ingalls of
North Carolina
Generichem Corp

FIBRONECTIN

ProteinLabs

FILM COATINGS

Barrington Nutritionals
BASF Corp, G-ENP
Biddle Sawyer Corp
Emerson Resources
Evonik Corp,
Health Care
Grain Processing Corp
International Specialty
Products
Kerry
MantroseHaeuser Co
Mutchler Pharmaceutical
Ingredients
Mylan Technologies
Seppic,
Pharmaceutical Div
TIC Gums

FLAVOR ENHANCERS

Asiameica Group
Biddle Sawyer Corp
George Uhe Co
Kyowa Hakko USA
Virginia Dare

FLAVORS

Kerry
Virginia Dare

FLAVORS & FRAGRANCES

Albemarle Corp
Jedwards Intl

FLUFENAMIC ACID

Asiameica Group
Biddle Sawyer Corp
Scandinavian Formulas

FLUNARIZINE DIHYDROCHLORIDE

INDOFINE Chemical Co

FLUOCINOLONE ACETONIDE

Dastech Intl
Parchem Fine
Specialty Chemicals

FLUORESCEINS

Kraeber & Co GmbH

FLUORINE DERIVATIVES, ALIPHATIC

INDOFINE Chemical Co
Scott Medical Products

FLUORINE DERIVATIVES, AROMATIC

Albemarle Corp
INDOFINE Chemical Co
Scott Medical Products

FLUOROURACIL

Ceres Chemical Co
George Uhe Co
INDOFINE Chemical Co

FLUOXETINE HCL

Asiameica Group
National Medical
Services,
Biopharmaceutical
Support Services
Siegfried (USA)

FLURBIPROFEN

Albemarle Corp

FOLIC ACID

Charles Bowman & Co
Contract
Pharmaceutical Corp
Dastech Intl
DSM Nutritional
Products LLC
Generichem Corp
George Uhe Co
Helm New York
Huber Engineered
Materials, Health &
Nutrition Div

FOLINIC ACID CALCIUM SALT PENTAHYDRATE

Alfa Chem

FORMALDEHYDE

Capital Resin Corp
Clordisys Solutions
Hexion, Epoxy,
Phenolic & Coating
Resins Div

FORMAMIDE

Clordisys Solutions
Doe Ingalls of
North Carolina

FORMATES

Albemarle Corp
Brenntag North America

FRAGRANCES

George Uhe Co
Scandinavian Formulas

FRUCTOSE

Barrington Nutritionals
Scandinavian Formulas
SPI Pharma
Vantage

FUMARIC ACID

AIC
KIC Chemicals

FUNGICIDES

Albemarle Corp
Chemtura Corp
Clordisys Solutions

GALACTOSE

Avantor Performance
Materials
BioSpectra
Kraeber & Co GmbH
Marcor Development
Corp
Mutchler Pharmaceutical
Ingredients

GALLIC ACID

Alfa Chem
Parchem Fine
Specialty Chemicals
Thomas Scientific
Vantage

GALLIUM METAL SALTS

5N Plus Wisconsin
Fairfield

GELATIN

Arista Industries
Biddle Sawyer Corp
EmboCaps by Suheung
PB Leiner USA
ProteinLabs
Suheung America Corp
Thomas Scientific

GELATIN, HYDROLYZED

Arista Industries
Biddle Sawyer Corp
Contract
Pharmaceutical Corp
EmboCaps by Suheung
Marcor Development
Corp
PB Leiner USA
Suheung America Corp

GELATION AGENTS

CP Kelco,
A JM Huber Co
FMC Corp,
FMC BioPolymer
PB Leiner USA

GELLAN GUM

CP Kelco,
A JM Huber Co

GENTAMICIN SULFATE

Parchem Fine
Specialty Chemicals

GENTIAN VIOLET

Doe Ingalls of
North Carolina

GIBBERELLIC ACID

Parchem Fine
Specialty Chemicals

GLICLAZIDE

DSM Pharmaceuticals
Products
Parchem Fine
Specialty Chemicals

GLIPIZIDE

Alfa Chem
Cambrex

GLUCONIC ACID AND SALTS

Doe Ingalls of
North Carolina

GLUCONO DELTA LACTONE

Lonza
Parchem Fine
Specialty Chemicals

GLUCOSAMINE HCL

Barrington Nutritionals
George Uhe Co
Kraeber & Co GmbH

GLUCOSAMINE SULFATE SALT

Barrington Nutritionals
Charles Bowman & Co
Contract
Pharmaceutical Corp
Dastech Intl
George Uhe Co
Kraeber & Co GmbH
Marcor Development
Corp
Parchem Fine
Specialty Chemicals
Richman Chemical

GLUCOSE

Avantor Performance
Materials
Parchem Fine
Specialty Chemicals
Thomas Scientific
Vantage

GLUCOSE SYRUP

Vantage

GLUTAMIC ACID AND SALTS

BioSpectra
Napp Technologies LLC

GLUTAMIC ACID HCL

Doe Ingalls of
North Carolina
Napp Technologies LLC

GLUTARALDEHYDE

Bangs Labs
Doe Ingalls of
North Carolina
Electron Microscopy
Sciences
Thomas Scientific

GLYBURIDE (GLIBENCLAMIDE)

Cambrex

GLYCERIN

Arista Industries
Hawkins,
Pharmaceutical
Jedwards Intl
KIC Chemicals

GLYCEROL MONOLAUATE

ABITEC Corp
Gattafossé USA,
Pharmaceutical Div
Lonza

GLYCEROL MONOOLEATE

ABITEC Corp
Allan Chemical Corp
Chemtura Corp
Croda, Health Care
Gattafossé USA,
Pharmaceutical Div
KIC Chemicals
Lonza
Vantage

GLYCERO-PHOSPHATES

Seppic,
Pharmaceutical Div
Vernon Walden

GLYCERYL MONOSTEARATE

ABITEC Corp
KIC Chemicals

GLYCINE

Charles Bowman & Co
Evonik Corp,
Health Care
Generichem Corp
Hawkins,
Pharmaceutical
Kyowa Hakko USA
Vantage

GLYCINE METHYL ESTER HCL

Alfa Aesar,
A Johnson Matthey Co

GLYCOL ETHERS

Hexion, Epoxy,
Phenolic & Coating
Resins Div

GLYCOPYRROLATE

Ceres Chemical Co

GLYCYRRHIZA

MAFCO Worldwide
Corp
Scandinavian Formulas

GLYCYRRHIZIC ACID

MAFCO Worldwide
Corp
Parchem Fine
Specialty Chemicals
Scandinavian Formulas

GRAPE SKIN EXTRACT

Asiameica Group
Charles Bowman & Co
George Uhe Co
Parchem Fine
Specialty Chemicals

GUAIACOL GLYCERYL ETHER (GUAIFENESIN)

AIC
Dastech Intl
Napp Technologies LLC

GUANIDINE

Asiameica Group
Avantor Performance
Materials
Vantage

GUANIDINE CARBONATE

Asiameica Group
Dastech Intl
Kingchem LLC

GUANIDINE HCL

Avantor Performance
Materials
BioSpectra

GUANIDINE NITRATE

Asiameica Group

GUANIDINE THIOCYANATE

BioSpectra

GUAR GUM

AIC
CP Kelco,
A JM Huber Co
Gumix Intl
KIC Chemicals
Momentive
Performance Materials
Multi-Kern Corp
TIC Gums

GUM BENZOIN (BENZOIN USP)

Alfa Chem
Pangaea Sciences

GYPSUM

CB Minerals LLC

HALAZONE

Ceres Chemical Co

HALOGENATED ACYL HALIDES

Albemarle Corp
Morre-Tec Industries

HALOGENATED ALKANES

Albemarle Corp
Kingchem LLC
Morre-Tec Industries

HALOGENATED CARBOXYLIC ACIDS

Albemarle Corp
Kingchem LLC
Morre-Tec Industries

HALOPERIDOL

INDOFINE Chemical Co

HECTORITE

Brenntag Specialties
CoKEM Assocs
Vantage

HEPARIN SODIUM

Kraeber & Co GmbH

HEPES SODIUM

BioSpectra

HESPERIDIN

Alfa Chem
Generichem Corp

HEXAMETHYL-DISILANE

Brenntag Specialties
Gelest
Momentive
Performance Materials
OakBark Corp

HEXAMETHYL-DISILAZANE

Momentive
Performance Materials

HEXANE

Avantor Performance
Materials

HEXYL NICOTINATE

Seppic,
Pharmaceutical Div

HEXYL SALICYLATE

INDOFINE Chemical Co

HIGHLY POTENT API MANUFACTURING

Evonik Corp,
Health Care

HIPPURIC ACID

INDOFINE Chemical Co

HISTIDINE

Avantor Performance
Materials
Kyowa Hakko USA

HOLMIUM OXIDE

Brenntag Specialties
Soltec Ventures

HORMONES

Pfizer CentreOne

HUMAN PLACENTA PROTEIN

ProteinLabs

HUMECTANTS

Chemtura Corp
George Uhe Co

HYALURONIC ACID

FMC Corp,
FMC BioPolymer
George Uhe Co
Kraeber & Co GmbH
Kyowa Hakko USA
Marcor Development
Corp
ProteinLabs
Worthington
Biochemical Corp

HYALURONIDASE

Kraeber & Co GmbH
ProteinLabs
Worthington
Biochemical Corp

HYDRALAZINE HCL

Hetero, Custom
Pharmaceutical
Services

HYDRAZINE

HYDRATE
Arkema

HYDROBROMIC ACID

Albemarle Corp
Allan Chemical Corp
Dastech Intl
Morre-Tec Industries

HYDROCHLORIC ACID

Arkema
Avantor Performance
Materials
Hawkins,
Pharmaceutical
Hexion, Epoxy,
Phenolic & Coating
Resins Div
Momentive
Performance Materials

HYDROCHLORO-THIAZIDE

Cambrex

HYDROCODONE

Johnson Matthey,
Pharmaceutical
Materials

HYDROCODONE

BITARTRATE
Cambrex
Johnson Matthey,
Pharmaceutical
Materials
Siegfried (USA)

HYDROCORTISONE ACETATE (CORTISOL ACETATE)

AIC
Ceres Chemical Co
Dastech Intl
Napp Technologies LLC
Pfizer CentreOne

HYDROCORTISONE AND RELATED COMPOUNDS (CORTISOL)

AIC
Napp Technologies LLC
Pfizer CentreOne

HYDROFLUORIC ACID

Arkema
Avantor Performance
Materials
Doe Ingalls of
North Carolina

HYDROGEN CHLORIDE

Arkema
BOC, A member of
The Linde Group

HYDROGEN

PEROXIDE
Arkema
Avantor Performance
Materials
Decon Labs
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor

HYDROGENATED VEGETABLE OILS

ABITEC Corp
Arista Industries
Brenntag North America
Frank B Ross Co
Gattefossé USA,
Pharmaceutical Div
JRS Pharma
Mutchler Pharmaceutical
Ingredients
Scandinavian Formulas

HYDROMORPHONE HCL

Cambrex
Johnson Matthey,
Pharmaceutical
Materials
Siegfried (USA)

HYDROPHOBIC POLYMERS

Bangs Labs
CP Kelco,
A JM Huber Co

HYDROQUINONE

Brenntag North America
Kraeber & Co GmbH

HYDROXYETHYL CELLULOSE

Ashland,
Pharmaceutical
Brenntag Specialties
MantroseHaeuser Co
Mutchler Pharmaceutical
Ingredients

HYDROXYLAMINE SULFATE

Richman Chemical

HYDROXYPROPYL CELLULOSE

Ashland,
Pharmaceutical
Barrington Nutritionals
Brenntag North America
Colorcon
George Uhe Co
Mutchler Pharmaceutical
Ingredients
Nisso America,
Specialty Chemicals
Rohm and Haas
Chemicals LLC,
The Dow Chemical Co
Vantage

HYDROXYPROPYL CELLULOSE, LOW-SUBSTITUTED (CORTISOL)

Ashland,
Pharmaceutical
Brenntag North America
Colorcon
George Uhe Co
Kerry
KIC Chemicals

HYDROXYPROPYL METHYLCELLULOSE

Ashland,
Pharmaceutical
Barrington Nutritionals
Biddle Sawyer Corp
Brenntag North America
Colorcon
George Uhe Co
Kerry
KIC Chemicals

For vendor contact information, see Company Directory section.

MantroseHaeuser Co
Rohm and Haas
Chemicals LLC,
The Dow Chemical Co

HYDROXYPROPYL METHYLCELLULOSE ACETATE SUCCINATE

Ashland,
Pharmaceutical
Biddle Sawyer Corp
Brenntag North America
Rohm and Haas
Chemicals LLC,
The Dow Chemical Co

HYDROXYPROPYL METHYLCELLULOSE PHTHALATE

Biddle Sawyer Corp
Brenntag North America
Colorcon
MantroseHaeuser Co

HYOCHOLIC ACID

Momentive
Performance Materials

HYOSCYAMINE

Contract
Pharmaceutical Corp

HYOSCYAMINE HYDROBROMIDE

Contract
Pharmaceutical Corp

HPROMELLOSE

Biddle Sawyer Corp
Colorcon
JRS Pharma
JRS Pharma GmbH &
Co KG
MantroseHaeuser Co
Mutchler Pharmaceutical
Ingredients

IBUPROFEN, USP

AIC
Albemarle Corp
Aptalis Pharmaceutical
Technologies
Asiameica Group
BASF Corp, G-ENP
Ceres Chemical Co
Dastech Intl
Parchem Fine
Specialty Chemicals
Pharmsolv LLC
SPI Pharma

ICHTHAMMOL

Napp Technologies LLC

IMIDAZOLE

Avantor Performance
Materials
Chemtura Corp

IMIDAZOLIDINYL UREA

Spectrum Chemical
Mfg Corp
Vantage

IMINODIBENZYL

Spectrum Chemical
Mfg Corp

INDAPAMIDE

Parchem Fine
Specialty Chemicals

INDIUM (METAL)

5N Plus Wisconsin
Fairfield

INDIUM OXIDE

5N Plus Wisconsin
Fairfield

INDIUM SALTS

5N Plus Wisconsin
Fairfield
Soltec Ventures

INDIUM SULFATE

5N Plus Wisconsin
Fairfield
Soltec Ventures

INDIUM TRICHLORIDE

5N Plus Wisconsin
Fairfield
Alfa Aesar,
A Johnson Matthey Co
Soltec Ventures

INDOLE-3-CARBOXALDEHYDE

INDOFINE Chemical Co
Richman Chemical
Scandinavian Formulas

INDOLE-3-PROPIONIC ACID

INDOFINE Chemical Co

INDOMETHACIN

Munters Corp

INSULINS

Asiameica Group

IODINATED GLYCEROL

Parchem Fine
Specialty Chemicals

IODINE

Alfa Aesar,
A Johnson Matthey Co
Asiameica Group
Contract
Pharmaceutical Corp
Helm New York

IODINE, RESUBLIMED

Alfa Aesar,
A Johnson Matthey Co

IODIFORM

Allan Chemical Corp
Spectrum Chemical
Mfg Corp

ODOQUINOL

Napp Technologies LLC

IODOTRIMETHYL-SILANE

FAR Chemical

ION-EXCHANGE RESIN

Avantor Performance
Materials
Rohm and Haas
Chemicals LLC,
The Dow Chemical Co

IRON III (FERRIC) ORTHO PHOSPHATE

Dastech Intl
Soltec Ventures

IRON POWDER

Charles Bowman & Co
International Specialty
Products
Pharmsolv LLC

IRON, REDUCED

Avantor Performance
Materials

ISOAMYL ACETATE

Albemarle Corp
Richman Chemical

ISOAMYL ALCOHOL (ISOPENTYL ALCOHOL)

Allan Chemical Corp
Arkema
Richman Chemical

ISOBUTYL ACETATE

Albemarle Corp

ISOBUTYL ALCOHOL

Arkema
Avantor Performance
Materials
Parchem Fine
Specialty Chemicals

ISOBUTYRATE

Albemarle Corp

ISOLEUCINE (L AND D,L)

Avantor Performance
Materials
BioSpectra
Kyowa Hakko USA

ISOMALT

AIC

ISONICOTINIC ACID

Vantage

ISOPROPYL ALCOHOL

Allan Chemical Corp
Angstrom Supply
Avantor Performance
Materials
Decon Labs
Parchem Fine
Specialty Chemicals

ISOPROPYL MYRISTATE

Allan Chemical Corp
Croda, Health Care
KIC Chemicals
Mutchler Pharmaceutical
Ingredients
Parchem Fine
Specialty Chemicals

ISOPROPYL PALMITATE

Allan Chemical Corp
KIC Chemicals
Mutchler Pharmaceutical
Ingredients

ISOPROPYLAMINE

Arkema

ISOVALERIANATE

Asiameica Group

ITRACONAZOLE

Albemarle Corp
Hetero, Custom
Pharmaceutical
Services
Napp Technologies LLC

JUNIPER BERRY EXTRACT

Asiameica Group
George Uhe Co

KAOLIN

Arkema
Brenntag Specialties
CB Minerals LLC
Thomas Scientific

KARAYA

Gumix Intl
TIC Gums
Vantage

KELP

Charles Bowman & Co
Vantage

KETOCOANAZOLE

Napp Technologies LLC
Piramal Pharma
Solutions
Sekisui Xenotech, LLC

KETOPROFEN

Parchem Fine
Specialty Chemicals
Pharmsolv LLC

L-ARGININE

Avantor Performance
Materials
BioSpectra
Brenntag North America
Corden Pharma
Generichem Corp
George Uhe Co
Hawkins,
Pharmaceutical
INDOFINE Chemical Co
Kyowa Hakko USA

L-ARGININE HCL

Avantor Performance
Materials
BioSpectra
Brenntag North America
Contract
Pharmaceutical Corp
Generichem Corp
Hawkins,
Pharmaceutical
INDOFINE Chemical Co
Kyowa Hakko USA
Vantage

L-ASPARTIC ACID

BioSpectra
Kyowa Hakko USA
Vantage

L-CYSTEINE HCL

AIC
Charles Bowman & Co
Contract
Pharmaceutical Corp
Generichem Corp
Hawkins,
Pharmaceutical
Kingchem LLC
Kyowa Hakko USA
Marcor Development
Corp
Pangaea Sciences

L-CYSTINE

BioSpectra
Brenntag North America
Contract
Pharmaceutical Corp
Generichem Corp
George Uhe Co
Hawkins,
Pharmaceutical
Kingchem LLC
Kyowa Hakko USA
Marcor Development
Corp
Pangaea Sciences

L-LYSINE

Avantor Performance
Materials
Charles Bowman & Co
Cherokee
Pharmaceuticals
Contract
Pharmaceutical Corp
Evonik Corp,
Health Care
Helm New York
Kyowa Hakko USA
Scandinavian Formulas

L-PROLINE

Biolink Life Sciences
BioSpectra
Doe Ingalls of
North Carolina
Kyowa Hakko USA

L-SERINE

Advanced Synthesis,
Chemical Div
BioSpectra
Charles Bowman & Co
Corden Pharma
Doe Ingalls of
North Carolina
Evonik Corp,
Health Care
Kyowa Hakko USA
Spectrum Chemical
Mfg Corp

L-TRYPTOPHAN

BioSpectra
Contract
Pharmaceutical Corp
Evonik Corp,
Health Care
Kyowa Hakko USA

LABETALOL HCL

Cambrex

**LACTALBUMIN
HYDROLYSATE**

Contract
Pharmaceutical Corp
Kerry
Marcor Development
Corp

LACTIC ACID

Avantor Performance
Materials
Doe Ingalls of
North Carolina
KIC Chemicals
Parchem Fine
Specialty Chemicals
Wako Chemicals USA,
Lab Chemicals Div

LACTIDE

Evonik Corp,
Health Care

LACTOFERRIN

Marcor Development
Corp

LACTOPEROXIDASE

Worthington
Biochemical Corp

LACTOSE

Kerry
Mutchler Pharmaceutical
Ingredients

**LACTOSE, DIRECT-
COMPRESSION**

Alfa Chem
BASF Corp, G-NP
DFE pharma
Doe Ingalls of
North Carolina
Kerry
Mutchler Pharmaceutical
Ingredients

LACTOSE, EDIBLE

Doe Ingalls of
North Carolina
Leprino Foods Dairy
Products Co
Mutchler Pharmaceutical
Ingredients

LACTULOSE

Marcor Development
Corp

LANOLIN

Charles Bowman & Co
CoKEM Assocs
Croda, Health Care
Jedwards Intl

LANOLIN ACIDS

CoKEM Assocs

LANOLIN ALCOHOLS

Charles Bowman & Co
CoKEM Assocs
Croda, Health Care

LANOLIN BASES

CoKEM Assocs

LANOLIN OIL

Alfa Chem
CoKEM Assocs
Croda, Health Care
Doe Ingalls of
North Carolina

LANOLIN WAX

CoKEM Assocs

**LANOLIN,
WATER-SOLUBLE**

CoKEM Assocs
Croda, Health Care

**LANTHANUM AND
SALTS**

Brenntag Specialties
Doe Ingalls of
North Carolina

LANTHANUM OXIDE

Brenntag Specialties
Doe Ingalls of
North Carolina

LATEX PARTICLES

Hexion, Epoxy,
Phenolic & Coating
Resins Div

LAURIC ACID

Arista Industries
Jedwards Intl
KIC Chemicals
Sekisui XenoTech, LLC

**LAURIC
DIETHANOLAMIDES**

Chemtura Corp

LAVENDER OIL

Arista Industries
George Uhe Co
Jedwards Intl
KIC Chemicals

LEAD ACETATE

Alfa Aesar,
A Johnson Matthey Co
Allan Chemical Corp

LEAD COMPOUNDS

Allan Chemical Corp

LEAD OXIDES

Thomas Scientific

LEAD SULFATE

Alfa Aesar,
A Johnson Matthey Co

LECITHIN

American Lecithin Co
Jedwards Intl
Vernon Walden

LEMON OIL

Arista Industries
Jedwards Intl
KIC Chemicals

LEUCINE (D,L)

BioSpectra
Kyowa Hakko USA
Scandinavian Formulas
Sekisui XenoTech, LLC

**LEVOTHYROXINE
SODIUM**

Napp Technologies LLC

**LICORICE, LICORICE
EXTRACTS**

Dastech Intl
MAFCO Worldwide
Corp
Morre-Tec Industries

LIDOCAINE

Napp Technologies LLC

LIDOCAINE HCL

AIC
Albemarle Corp
Cambrex
Dastech Intl
Napp Technologies LLC

LINCOMYCIN HCL

Alfa Chem

LINOLEIC ACID

Alfa Aesar,
A Johnson Matthey Co
Chemtura Corp
Croda, Health Care

LIPASE

American Labs
Marcor Development
Corp
ProteinLabs
Scandinavian Formulas

LITHIUM

Alfa Aesar,
A Johnson Matthey Co
Chem Metall Foote Corp,
Lithium Div
FMC Lithium
Lyophilization
Technology
Thomas Scientific

LITHIUM ACETYLIDE

Chem Metall Foote Corp,
Lithium Div

**LITHIUM ALUMINUM
HYDRIDE**

Chem Metall Foote Corp,
Lithium Div

**LITHIUM
CARBONATE**

Alfa Aesar,
A Johnson Matthey Co
Chem Metall Foote Corp,
Lithium Div
FMC Lithium

LITHIUM CHLORIDE

Alfa Aesar,
A Johnson Matthey Co
Chem Metall Foote Corp,
Lithium Div
Cherokee
Pharmaceuticals
Dastech Intl
FMC Lithium
Thomas Scientific

LITHIUM CITRATE

Chem Metall Foote Corp,
Lithium Div
FMC Lithium

LITHIUM FLUORIDE

Chem Metall Foote Corp,
Lithium Div
Dastech Intl
FMC Lithium

LITHIUM HEPARIN

Kraeber & Co GmbH

**LITHIUM
HEXAMETHYL**

Chem Metall Foote Corp,
Lithium Div
Gelest

**LITHIUM
HYDROXIDE**

Alfa Aesar,
A Johnson Matthey Co
Chem Metall Foote Corp,
Lithium Div
Dastech Intl
FMC Lithium

**LIVER
CONCENTRATE**

Sekisui XenoTech, LLC

LIVER EXTRACT

American Labs
Asiameica Group
BioVectra
Sekisui XenoTech, LLC

**LIVER PROTEIN
FRACTION**

American Labs
Asiameica Group
ProteinLabs
Sekisui XenoTech, LLC

LIVER, DESSICATED

American Labs
Contract
Pharmaceutical Corp
Marcor Development
Corp

**LIVER, WHOLE,
DRIED POWDER**

American Labs
Asiameica Group

LOCUST BEAN GUM

CP Kelco,
A JM Huber Co
Gumix Intl
KIC Chemicals
TIC Gums

LOPERAMIDE HCL

Ceres Chemical Co
Napp Technologies LLC

LORATADINE

Hetero, Custom
Pharmaceutical
Services

LORAZEPAM

Cambrex
Ceres Chemical Co
Evonik Corp,
Health Care

LOVASTATIN

Wako Chemicals USA,
Lab Chemicals Div

LUCIFERON

Regis Technologies,
Custom Pharma

**LYSINE MONO-
HYDROCHLORIDE**

Avantor Performance
Materials
BioSpectra
Brenntag North America
Charles Bowman & Co
Contract
Pharmaceutical Corp
Evonik Corp,
Health Care

**M-CHLOROPEROXY-
BENZOIC ACID**

Advanced Synthesis,
Chemical Div

**M-NITROBENZOIC
ACID**

Morre-Tec Industries
Richman Chemical

MAGALDRATE

Generichem Corp

MAGNESIUM

Brenntag Specialties
Chemtura Corp
Thomas Scientific

**MAGNESIUM
ACETATE**

Avantor Performance
Materials

**MAGNESIUM
ALUMINUM SILICATE**

Brenntag Specialties
Fuji Chemical
Industries USA
Generichem Corp
Vanderbilt Minerals LLC

**MAGNESIUM
BROMIDE**

Alfa Aesar,
A Johnson Matthey Co
Morre-Tec Industries

**MAGNESIUM
CARBONATE**

Alfa Aesar,
A Johnson Matthey Co
Allan Chemical Corp
Avantor Performance
Materials
Barrington Nutritionals
Brenntag North America
Brenntag Specialties
Generichem Corp
Morre-Tec Industries
Parchem Fine
Specialty Chemicals

**MAGNESIUM
CHLORIDE**

AIC
Arkema
Avantor Performance
Materials
Hawkins,
Pharmaceutical
Jedwards Intl

**MAGNESIUM
CITRATE**

Alfa Aesar,
A Johnson Matthey Co
Barrington Nutritionals
Brenntag North America
Dastech Intl
Doe Ingalls of
North Carolina
Generichem Corp
George Uhe Co
Jost Chemical Co
Parchem Fine
Specialty Chemicals
Scandinavian Formulas
Vantage

**MAGNESIUM
FLUORIDE**

Arkema
Doe Ingalls of
North Carolina
Scandinavian Formulas

**MAGNESIUM
GLUCONATE**

Contract
Pharmaceutical Corp
Dastech Intl
Doe Ingalls of
North Carolina
Generichem Corp
George Uhe Co
Jost Chemical Co

**MAGNESIUM
GLYCERO-
PHOSPHATE**

Asiameica Group
Biddle Sawyer Corp
Seppic,
Pharmaceutical Div

**MAGNESIUM
HYDROXIDE**

Avantor Performance
Materials
Barrington Nutritionals
SPI Pharma

**MAGNESIUM
LACTATE**

Asiameica Group
Generichem Corp
Jost Chemical Co

**MAGNESIUM
OROTATE**

Asiameica Group
Generichem Corp

MAGNESIUM OXIDE

Alfa Aesar,
A Johnson Matthey Co
Allan Chemical Corp
Asiameica Group
Barrington Nutritionals
Brenntag North America
Brenntag Specialties
Charles Bowman & Co
Contract
Pharmaceutical Corp
Dastech Intl
Generichem Corp
Thomas Scientific

**MAGNESIUM
SALICYLATE**

Asiameica Group
Generichem Corp

**MAGNESIUM
STEARATE**

AIC
Alfa Aesar,
A Johnson Matthey Co
Allan Chemical Corp
Avantor Performance
Materials
Barrington Nutritionals
Brenntag North America
Brenntag Specialties
Chemtura Corp
Dastech Intl
Doe Ingalls of
North Carolina
Generichem Corp
KIC Chemicals
Mutchler Pharmaceutical
Ingredients
Parchem Fine
Specialty Chemicals
Vantage

**MAGNESIUM
SULFATE
(EPSOM SALTS)**

AIC
Allan Chemical Corp
Avantor Performance
Materials
Barrington Nutritionals
Brenntag North America
Doe Ingalls of
North Carolina
Generichem Corp
Jost Chemical Co
Thomas Scientific

**MAGNESIUM
SULFITE**

Alfa Aesar,
A Johnson Matthey Co
Doe Ingalls of
North Carolina

**MAGNESIUM
TRISILICATE**

Doe Ingalls of
North Carolina
Generichem Corp

MALIC ACID

Doe Ingalls of
North Carolina
KIC Chemicals
Kyowa Hakko USA
Lonza

For vendor contact information, see Company Directory section.

MALTITOL SOLUTIONS

Barrington Nutritionals
Doe Ingalls of
North Carolina
Mutchler Pharmaceutical
Ingredients

MALTODEXTRINS

Grain Processing Corp
Hawkins,
Pharmaceutical
Mutchler Pharmaceutical
Ingredients
Scandinavian Formulas

MALTOSE, CRYSTALLINE

Doe Ingalls of
North Carolina
Hawkins,
Pharmaceutical
Marcor Development
Corp
Scandinavian Formulas
SPI Pharma

MANGANESE CARBONATE

Alfa Aesar,
A Johnson Matthey Co
Allan Chemical Corp
Doe Ingalls of
North Carolina
Generichem Corp
Soltec Ventures
Vantage

MANGANESE CHLORIDE

Alfa Aesar,
A Johnson Matthey Co
Allan Chemical Corp
Avantor Performance
Materials
Doe Ingalls of
North Carolina
Soltec Ventures

MANGANESE DIOXIDE

CB Minerals LLC

MANGANESE GLUCONATE

Generichem Corp
Jost Chemical Co
Scandinavian Formulas
Soltec Ventures

MANGANESE GLYCERO- PHOSPHATE

Scandinavian Formulas
Seppic,
Pharmaceutical Div
Soltec Ventures

MANGANESE LACTATE

Doe Ingalls of
North Carolina
Generichem Corp
Jost Chemical Co
Soltec Ventures

MANGANESE NITRATE

Alfa Aesar,
A Johnson Matthey Co
Soltec Ventures

MANGANESE SULFATE

Jost Chemical Co
Soltec Ventures

MANNITOL, PYROGEN-FREE

Mutchler Pharmaceutical
Ingredients

MECLIZINE

AIC

MECLIZINE HCL

AIC
Contract Pharmacal Corp

MECLOFENAMATE SODIUM

Albemarle Corp

MEDIUM CHAIN TRIGLYCERIDES

Arista Industries
KIC Chemicals

MELATONIN

Barrington Nutritionals
Marcor Development
Corp

MENTHOL

George Uhe Co
KIC Chemicals

MENTHOL, RACEMIC

Parchem Fine
Specialty Chemicals
Scandinavian Formulas

MENTHYL ACETATE

Scandinavian Formulas

MERCURY, TRIPLE-DISTILLED

Thomas Scientific

MESALAMINE

Cambrex

METAPROTERENOL SULFATE

Cambrex

METAXALONE

Hetero, Custom
Pharmaceutical
Services

METFORMIN HCL

Parchem Fine
Specialty Chemicals

METHACHOLINE CHLORIDE

Parchem Fine
Specialty Chemicals

METHANESULFONIC ACID, 70%

Alfa Aesar,
A Johnson Matthey Co
Arkema
Capital Resin Corp
Cherokee
Pharmaceuticals
Richman Chemical

METHANESULFONIC ACID, ANHYDROUS

Arkema
Richman Chemical

METHANESULFONYL CHLORIDE

Arkema

METHANOL

Avantor Performance
Materials
BOC, A member of
The Linde Group
Capital Resin Corp
Doe Ingalls of
North Carolina

METHENAMINE (HEXAMETHYLENE- TRAMINE)

BASF Corp, G-ENP

METHIONINE

BioSpectra
Evonik Corp,
Health Care
Napp Technologies LLC

METHOCARBAMOL

Parchem Fine
Specialty Chemicals

METHYL BENZOATE

Allan Chemical Corp

METHYL BROMIDE

Airgas
Albemarle Corp
BOC, A member of
The Linde Group

METHYL CELLULOSE

Ashland,
Pharmaceutical
Biddle Sawyer Corp
Doe Ingalls of
North Carolina
Rohm and Haas
Chemicals LLC,
The Dow Chemical Co
TIC Gums

METHYL CHLORIDE

BOC, A member of
The Linde Group
Electron Microscopy
Sciences
Momentive
Performance Materials

METHYL ETHYL KETONE

Arkema
Vantage

METHYL ISOBUTYL KETONE

Vantage

METHYL LACTATE

Gelant Co

METHYL SALICYLATE

Dastech Intl
Napp Technologies LLC

METHYL SULFIDE

Arkema

METHYLENE BLUE

Dastech Intl

METHYL PARABEN (METHYL-P-HYDROXY- BENZOATE)

Avantor Performance
Materials
Mutchler Pharmaceutical
Ingredients
Napp Technologies LLC
Vantage

METHYLPHENIDATE HCL

BASF Corp, G-ENP
Siegfried (USA)

METHYL-PREDNISOLONE

Pfizer CentreOne

METHYL-PREDNISOLONE ACETATE

Pfizer CentreOne

METHYL-PREDNISOLONE BASE

Pfizer CentreOne

METHYL-PREDNISOLONE HEMISUCCINATE

Pfizer CentreOne

METHYL- RESORCINOL

Napp Technologies LLC
Vantage

MICONAZOLE NITRATE/BASE

AIC
Dastech Intl
Napp Technologies LLC
Vantage

MICROCRYSTALLINE CELLULOSE

Blanver

MICROCRYSTALLINE WAX

Brenntag Specialties
Frank B Ross Co
Mutchler Pharmaceutical
Ingredients
Sonneborn LLC
Strahl & Pitsch

MICROSPHERES

Asahi Kasei Chemical
Corp/Asahi Kasei
America, Functional
Additives Div
Bangs Labs
Biddle Sawyer Corp
Evonik Corp,
Health Care
Glatt Pharmaceutical
Services
Momentive
Performance Materials

MINERAL OIL, HEAVY

Arista Industries
George Uhe Co
Sonneborn LLC

MINERAL OIL, LIGHT

Arista Industries
Doe Ingalls of
North Carolina
George Uhe Co
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
MultiTherm LLC
Mutchler Pharmaceutical
Ingredients
Scandinavian Formulas
Sonneborn LLC
Strahl & Pitsch
Vantage

MINK OIL

Scandinavian Formulas
Vantage

MINOXIDIL

Napp Technologies LLC

MONOAMMONIUM GLYCERYRRHIZINATE

MAFCO Worldwide
Corp

MONOBUTYLAMINE

Arkema

MONOCLONAL ANTIBODIES

Goodwin Biotechnology
Lampire Biological Labs
Sekisui XenoTech, LLC

MONOPOTASSIUM PHOSPHATE

Allan Chemical Corp
Brenntag North America
Doe Ingalls of
North Carolina

MONOSACCHARIDES PYRAMID Labs**MONOSODIUM CITRATE**

Brenntag North America

MONOSODIUM GLUTAMATE

Alfa Chem
Brenntag North America
Helm New York
KIC Chemicals

MORPHINE SULFATE

Johnson Matthey,
Pharmaceutical
Materials
Siegfried (USA)

MORPHOLINE

Brenntag North America

MUCOPOLY- SACCHARIDES

Kraeber & Co GmbH
Marcor Development
Corp

MYRISTIC ACID

KIC Chemicals

MYRISTYL ALCOHOL

Parchem Fine
Specialty Chemicals

MYRISTYL TRIMETHYL AMMONIUM BROMIDE

Albemarle Corp

N-(2-HYDROXYETHYL) PIPERAZINE-N'-2- ETHANESULFONIC ACID (HEPES, FREE ACID)

BioSpectra

N-ACETYL- GLUCOSAMINE

Marcor Development
Corp
Spectrum Chemical
Mfg Corp
Universal Preserv-
A-Chem

N-ACETYL- METHIONINE (D,L)

Spectrum Chemical
Mfg Corp

N-AMYL ALCOHOL

Advanced Synthesis,
Chemical Div
Penta Mfg Co,
Div Penta Intl Corp

N-BENZYL-3-CARBETHOXY-4- PIPERIDONE

Kingchem LLC

N-BENZYL-4- PIPERIDONE

Kingchem LLC

N-BROMO- SUCCINIMIDE

Albemarle Corp
Asiamerica Group
Morre-Tec Industries
Richman Chemical

N-BUTYL ALCOHOL

Penta Mfg Co,
Div Penta Intl Corp

N-BUTYL LITHIUM

Advanced Synthesis,
Chemical Div
FMC Lithium

N-CARBETHOXY-4- PIPERIDONE

Kingchem LLC

N-DOCECENYL SUCCINIC ANHYDRIDE

Albemarle Corp
Asiamerica Group
Contract
Pharmaceutical Corp
Lonza
Parchem Fine
Specialty Chemicals

N-METHYL ETHANOLAMINE

Arkema

N-METHYL PYRROLIDONE

Ashland,
Pharmaceutical
International Specialty
Products
Parchem Fine
Specialty Chemicals

N-METHYL-4- CHLOROPIPERIDINE

INDOFINE Chemical Co

N-OCTADECENYL SUCCINIC ANHYDRIDE

Albemarle Corp
Asiamerica Group

N-OCTENYL SUCCINIC ANHYDRIDE

Albemarle Corp
Parchem Fine
Specialty Chemicals

N,N-CARBONYL- DIIMIDAZOLE

Advanced Synthesis,
Chemical Div
Morre-Tec Industries

NABUMETONE

Hetero, Custom
Pharmaceutical
Services

NALOXONE

Johnson Matthey,
Pharmaceutical
Materials

NALTREXONE

Johnson Matthey,
Pharmaceutical
Materials

NANDROLONE DECANOATE

Parchem Fine
Specialty Chemicals

NAPHAZOLINE HCL

Napp Technologies LLC

NAPROXEN

Albemarle Corp
Dastech Intl
Parchem Fine
Specialty Chemicals

NEOMYCIN SULFATE

Helm New York
Pfizer CentreOne

NEOMYCIN SULFATE, USP

AIC
Pfizer CentreOne

NEOSTIGMINE (BROMIDE AND METHYL SULPHATE)

DSM Pharmaceuticals
Products

NEROLIDOL
George Uhe Co

NIACIN (NICOTINIC ACID), VITAMIN BARRINGTON NUTRITIONALS
Barrington Nutritionals
Charles Bowman & Co
Dastech Intl
DSM Nutritional Products LLC
Generichem Corp
Helm New York
Lonza
Parchem Fine
Specialty Chemicals

NIACINAMIDE AIC
Barrington Nutritionals
BASF Corp, G-ENP
Charles Bowman & Co
Dastech Intl
DSM Nutritional Products LLC
Generichem Corp
Helm New York
Lonza

NIACINAMIDE ASCORBATE
Asiamerica Group
BASF Corp, G-ENP
DSM Nutritional Products LLC
Huber Engineered Materials, Health & Nutrition Div

NICKEL NITRATE
Doe Ingalls of
North Carolina

NICKEL SULFATE
Doe Ingalls of
North Carolina

NICOTINE
Penta Mfg Co,
Div Penta Intl Corp
Siegfried (USA)
Vantage

NICOTINIC ACID
Charles Bowman & Co
DSM Nutritional Products LLC
Vantage

NIFEDIPINE
Evonik Corp,
Health Care
Siegfried (USA)

NILE BLUE A
Doe Ingalls of
North Carolina

NINHYDRIN
Wako Chemicals USA,
Lab Chemicals Div

NIOBIUM SALTS
Soltec Ventures

NIOTINAMIDE
Alfa Chem

NITRIC ACID
Alfa Chem

NITROGEN
Airgas
BOC, A member of
The Linde Group
Praxair

NONPAREIL SEEDS
JRS Pharma GmbH &
Co KG

NORTRIPTYLINE HCL
Ceres Chemical Co
Napp Technologies LLC

NORVALINE (D1)
Sekisui XenoTech, LLC

NUCLEIC ACID
Kyowa Hakko USA
Worthington
Biochemical Corp

NUCLEOSIDES
George Uhe Co

NUTMEG OIL
Arista Industries
George Uhe Co
KIC Chemicals

NYSTATIN
Napp Technologies LLC

O-AMINOBENZOIC ACID
INDOFINE Chemical Co

O-AMINO-THIOPHENOL
OakBark Corp
Scandinavian Formulas

O-ANISALDEHYDE, TECHNICAL
INDOFINE Chemical Co

O-TOLUIDINE
Dastech Intl

OCTANOL
Asiamerica Group

OIL, OTHERS
Arista Industries
Jedwards Intl
Scandinavian Formulas

OLEIC ACID
Arista Industries
Chemtura Corp
Croda, Health Care
Jedwards Intl
KIC Chemicals
Mutchler Pharmaceutical
Ingredients

OLEOYL ALCOHOL
Croda, Health Care

OLIVE OIL
Arista Industries
Croda, Health Care
Jedwards Intl
KIC Chemicals
Morre-Tec Industries
Mutchler Pharmaceutical
Ingredients
Vantage

OMEPRAZOLE
Hetero, Custom
Pharmaceutical
Services
Sekisui XenoTech, LLC

ORANGE OIL
Arista Industries
George Uhe Co
Jedwards Intl
KIC Chemicals
Virginia Dare

OROTIC ACID
Parchem Fine
Specialty Chemicals

ORPHENADRINE CITRATE
Albemarle Corp

ORPHENADRINE HCL
Albemarle Corp

OSMIUM TETROXIDE
Electron Microscopy
Sciences
Wako Chemicals USA,
Lab Chemicals Div

OXALIC ACID
Advanced Synthesis,
Chemical Div
Alfa Chem
Allan Chemical Corp

OXALYL CHLORIDE
Advanced Synthesis,
Chemical Div
Richman Chemical

OXAZEPAM
Cambrex

OXYBUTYNYN CHLORIDE
BASF Corp, G-ENP
Ceres Chemical Co

OXYCODONE HCL
Johnson Matthey,
Pharmaceutical
Materials
Siegfried (USA)

OXYMETAZOLINE HCL
BASF Corp, G-ENP
Ceres Chemical Co

OXYTETRACYCLINE
Helm New York

OYSTER SHELL POWDER
Barrington Nutritionals
Contract
Pharmaceutical Corp
Huber Engineered
Materials, Health &
Nutrition Div

P-AMINOHIPURIC ACID
Alfa Chem
INDOFINE Chemical Co

P-CHLORBENZO-PHENONE
INDOFINE Chemical Co
Richman Chemical

P-CHLOROACETO-PHENONE
INDOFINE Chemical Co
Richman Chemical

P-FLUROANILINE
Dastech Intl
INDOFINE Chemical Co
Kingchem LLC

P-HYDROXY-ACETOPHENONE
Richman Chemical

P-HYDROXY-BENZOIC ACID
Dastech Intl
Napp Technologies LLC

P-METHOXY-PHENYLACETIC ACID
INDOFINE Chemical Co

P-METHYL ACETOPHENONE
INDOFINE Chemical Co
Richman Chemical

P-TOLUENE-SULFONIC ACID
Alfa Aesar,
A Johnson Matthey Co
Capital Resin Corp
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany

P-TOLUENE-SULFONYL CHLORIDE
Alfa Aesar,
A Johnson Matthey Co
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany

PACLITAXEL
Sekisui XenoTech, LLC
Soltec Ventures

PALMITIC ACID
Alfa Chem
Chemtura Corp
Jedwards Intl
KIC Chemicals
Mutchler Pharmaceutical
Ingredients

PAMABROM
Ceres Chemical Co
Contract
Pharmaceutical Corp

PANCREASE ENZYME
Alfa Chem
American Labs
Marcor Development
Corp
Pangaea Sciences
ProteinLabs

PANCREATIN
American Labs
Contract
Pharmaceutical Corp
Marcor Development
Corp
ProteinLabs

PANCRELIPASE
ProteinLabs

PANTETHINE
Charles Bowman & Co

PANTOTHENIC ACID
Charles Bowman & Co
Contract
Pharmaceutical Corp
DSM Nutritional
Products LLC

PAPAIN
American Labs
Contract
Pharmaceutical Corp
Marcor Development
Corp
ProteinLabs
Worthington
Biochemical Corp

PARAFFIN, LIQUID (MINERAL OIL)
Aptalis Pharmaceutical
Technologies
Brenntag Specialties
MultiTherm LLC
Mutchler Pharmaceutical
Ingredients
Parchem Fine
Specialty Chemicals
Sonneborn LLC
Strahl & Pitsch

PARAFORMAL-DEHYDE
Advanced Synthesis,
Chemical Div

PEANUT OIL
Arista Industries
Croda, Health Care
KIC Chemicals

PECTIN
Barrington Nutritionals
CP Kelco,
A JM Huber Co
KIC Chemicals
Parchem Fine
Specialty Chemicals
TIC Gums

PENICILLIN G POTASSIUM
Helm New York

PENTAERYTHRITOL
Spectrum Chemical
Mfg Corp

PENTAMIDINE ISETHIONATE
Spectrum Chemical
Mfg Corp

PENTOBARBITAL
Siegfried (USA)

PEPPERMINT
Contract
Pharmaceutical Corp

PEPPERMINT OIL
Arista Industries
George Uhe Co
Jedwards Intl
KIC Chemicals
Spectrum Chemical
Mfg Corp

PEPSIN
American Labs
ProteinLabs
Worthington
Biochemical Corp

PEPTIDES
BioVectra
Centerchem,
Biochemicals &
Diagnostics Div
Evonik Corp,
Health Care
Grace
Kyowa Hakko USA
ProteinLabs
Scandinavian Formulas
Sekisui XenoTech, LLC

PEPTIDES, SYNTHETIC
BioVectra
Centerchem,
Biochemicals &
Diagnostics Div
Evonik Corp,
Health Care
Grace
Sekisui XenoTech, LLC
Spectrum Chemical
Mfg Corp

PEPTONES
American Labs
Marcor Development
Corp
Spectrum Chemical
Mfg Corp

PERSIC OIL
Arista Industries

PETROLATUM, WHITE (PARAFFIN, WHITE SOFT)
Sonneborn LLC

PETROLATUM, YELLOW
Sonneborn LLC

PHARMACEUTICAL GLAZES
MantroseHaeuser Co

PHENAZOPYRIDINE HCL
Contract
Pharmaceutical Corp
Siegfried (USA)

PHENINDIONE
Spectrum Chemical
Mfg Corp

PHENIRAMINE MALEATE AIC
Napp Technologies LLC
Spectrum Chemical
Mfg Corp

PHENOBARBITAL
Ceres Chemical Co
Siegfried (USA)
Spectrum Chemical
Mfg Corp
Vantage

PHENOBARBITAL SODIUM
Spectrum Chemical
Mfg Corp
Vantage

PHENOL
Advanced Synthesis,
Chemical Div
Dastech Intl
Hexion, Epoxy,
Phenolic & Coating
Resins Div
Spectrum Chemical
Mfg Corp

PHENOLPHTHALEIN
Allan Chemical Corp
Ceres Chemical Co
Spectrum Chemical
Mfg Corp

PHENOXYETHANOL
Chemtura Corp
Morre-Tec Industries
Penta Mfg Co,
Div Penta Intl Corp

PHENTERMINE HCL
Pisgah Labs
Siegfried (USA)
Spectrum Chemical
Mfg Corp

PHENYL ACETATE
Richman Chemical
Spectrum Chemical
Mfg Corp

PHENYL ACETYLENE
Advanced Synthesis,
Chemical Div
FAR Chemical
Scandinavian Formulas

PHENYL BUTAZONE
Aptalis Pharmaceutical
Technologies
Scandinavian Formulas
Spectrum Chemical
Mfg Corp

PHENYL SALICYLATE
Spectrum Chemical
Mfg Corp

PHENYLACETIC ACID
Arkema
Penta Mfg Co,
Div Penta Intl Corp
Spectrum Chemical
Mfg Corp

For vendor contact information, see Company Directory section.

PHENYLACETO-NITRILE

Arkema

PHENYLACETYL CHLORIDE

Spectrum Chemical Mfg Corp

PHENYLALANINE (D,L)Asiameica Group
BioSpectra
Corden Pharma
Kyowa Hakko USA
Sekisui XenoTech, LLC
Spectrum Chemical Mfg Corp**PHENYLEPHRINE HCL**AIC
Dastech Intl
Napp Technologies LLC
Parchem Fine
Specialty Chemicals
Spectrum Chemical Mfg Corp**PHENYLETHYL ALCOHOL**Penta Mfg Co,
Div Penta Intl Corp
Spectrum Chemical Mfg Corp**PHENYLMALONIC ACID**

Spectrum Chemical Mfg Corp

PHENYLMERCURIC ACETATE

Spectrum Chemical Mfg Corp

PHENYLMERCURIC NITRATE

Spectrum Chemical Mfg Corp

PHENYLPROPANOL-AMINE HCL

Dastech Intl

PHENYLPROPYL ALCOHOL

Spectrum Chemical Mfg Corp

PHENYLTOLX-AMINE CITRATEDastech Intl
Napp Technologies LLC
Parchem Fine
Specialty Chemicals**PHENYTOIN**

Generichem Corp

PHLOROGLUCINOL DIHYDRATEDSM Pharmaceuticals
Products
INDOFINE Chemical Co
Spectrum Chemical Mfg Corp**PHLOROGLUCINOL, ANHYDROUS**DSM Pharmaceuticals
Products
INDOFINE Chemical Co
Spectrum Chemical Mfg Corp**PHOSPHATIDYL CHOLINE**American Lecithin Co
Corden Pharma
Vernon Walden**PHOSPHATIDYL GLYCERYL**American Lecithin Co
Corden Pharma
Vernon Walden**PHOSPHOLIPIDS**American Lecithin Co
Corden Pharma
Vernon Walden**PHOSPHORIC ACID**Alfa Aesar,
A Johnson Matthey Co
Arkema
Hawkins,
Pharmaceutical
Spectrum Chemical Mfg Corp
Vantage**PHOSPHORUS OXYCHLORIDE**Advanced Synthesis,
Chemical Div
Alfa Aesar,
A Johnson Matthey Co**PHOSPHORUS PENTOXIDE**Advanced Synthesis,
Chemical Div
Alfa Aesar,
A Johnson Matthey Co
Arkema**PTHALYL-SULFACETAMIDE**

Generichem Corp

PTHALYL-SULFATHIAZOLE

Generichem Corp

PHYLLQUINONE

DSM Nutritional Products LLC

PICOLINIC ACIDRichman Chemical
Spectrum Chemical Mfg Corp**PILOCARPINE**Parchem Fine
Specialty Chemicals**PILOCARPINE HCL**

Scandinavian Formulas

PINDOLOLParchem Fine
Specialty Chemicals**PINE NEEDLE OIL**Arista Industries
George Uhe Co
Scandinavian Formulas**PINE TAR**

Scandinavian Formulas

PIPERAZINE

Scandinavian Formulas

PIPERAZINE CITRATEParchem Fine
Specialty Chemicals**PIPERIDINE**Cherokee
Pharmaceuticals
Scandinavian Formulas**PIVALIC ACID**Hexion, Epoxy,
Phenolic & Coating
Resins Div**PLACENTA EXTRACT**Kraeber & Co GmbH
Marcor Development
Corp**PLATINUM AND SALTS**

Soltec Ventures

POLY (D,L) LACTIC ACIDEvonik Corp,
Health Care
Ortec**POLY (D,L) LACTIC CO-GLYCOLIC ACID**Evonik Corp,
Health Care
Ortec**POLY (DIMETHYL-SILOXANE) (DIMETHICONE)**

Julabo USA

POLY (L) LACTIC ACIDBrenntag North America
Evonik Corp,
Health Care
Ortec**POLY(LACTIC ACID) (DIMETHICONE)**Brenntag North America
Evonik Corp,
Health Care
Ortec
Wako Chemicals USA,
Lab Chemicals Div**POLYCAPRO-LACTONE**Evonik Corp,
Health Care
Ortec**POLYETHYLENE GLYCOL ESTERS**BASF Corp, G-ENP
Biolink Life Sciences
BioVectra
Brenntag North America
Chemtura Corp
Gattefossé USA,
Pharmaceutical Div
Lonza
Mutchler Pharmaceutical
Ingredients
Scandinavian Formulas
Vantage**POLYETHYLENE GLYCOL MONOLAURATE**Brenntag North America
Gattefossé USA,
Pharmaceutical Div
Lonza
Mutchler Pharmaceutical
Ingredients
Scandinavian Formulas
Vantage**POLYETHYLENE GLYCOL MONOSTEARATE (POLYOXYL 40 STEARATE)**BASF Corp, G-ENP
Brenntag North America
Gattefossé USA,
Pharmaceutical Div
Lonza
Parchem Fine
Specialty Chemicals
Seppic,
Pharmaceutical Div**POLYETHYLENE GLYCOLS**Avantor Performance
Materials
BASF Corp, G-ENP
Biolink Life Sciences
BioVectraMutchler Pharmaceutical
Ingredients
Wako Chemicals USA,
Lab Chemicals Div**POLYETHYLENE OXIDE**Rohm and Haas
Chemicals LLC,
The Dow Chemical Co**POLYGLYCEROL FATTY ACID ESTERS**Croda, Health Care
Gattefossé USA,
Pharmaceutical Div
Lonza**POLYGLYCOLIC ACID**Evonik Corp,
Health Care
Ortec
Wako Chemicals USA,
Lab Chemicals Div**POLYMER DELIVERY SYSTEMS**Biddle Sawyer Corp
Colorcon
Evonik Corp,
Health Care**POLYMER FILMS, HYDROPHILIC**BASF Corp, G-ENP
Colorcon
Evonik Corp,
Health Care
Momentive
Performance Materials
Mylan Technologies**POLYMER FILMS, HYDROPHOBIC**BASF Corp, G-ENP
Colorcon
CP Kelco,
A JM Huber Co
Evonik Corp,
Health Care
Momentive
Performance Materials
Mylan Technologies**POLYMERS, CROSS-LINKED**Ashland,
Pharmaceutical
Bangs Labs
BASF Corp, G-ENP
Evonik Corp,
Health Care
International Specialty
Products
Momentive
Performance Materials**POLYMERS, SUPERABSORBENT**Evonik Corp,
Health Care
Hexion, Epoxy,
Phenolic & Coating
Resins Div
Momentive
Performance Materials**POLYMYXIN B SULFATE**AIC
Napp Technologies LLC**POLYOXYETHYLENE FATTY ESTERS**Croda, Health Care
Gattefossé USA,
Pharmaceutical Div**POLYOXYETHYLENE GLYCOLS**BASF Corp, G-ENP
Biolink Life SciencesChemtura Corp
Gattefossé USA,
Pharmaceutical Div
Wako Chemicals USA,
Lab Chemicals Div**POLYPEPTIDES**Evonik Corp,
Health Care**POLYPROPYLENE GLYCOLS**Brenntag North America
Chemtura Corp
Vantage**POLYSORBATES**Avantor Performance
Materials
Croda, Health Care
KIC Chemicals**POLYVINYL ALCOHOL**BASF Corp, G-ENP
Hexion, Epoxy,
Phenolic & Coating
Resins Div
Penta Mfg Co,
Div Penta Intl Corp**POLYVINYL-PYRROLIDONE**AIC
Ashland,
Pharmaceutical
BASF Corp, G-ENP
Biddle Sawyer Corp
Generichem Corp
George Uhe Co
International Specialty
Products
JRS Pharma GmbH &
Co KG
Mutchler Pharmaceutical
Ingredients
Napp Technologies LLC**POTASSIUM CITRATE**Barrington Nutritionals
Generichem Corp
George Uhe Co
KIC Chemicals
Parchem Fine
Specialty Chemicals**POTASSIUM ACETATE**Asiameica Group
Avantor Performance
Materials**POTASSIUM ALGINATE**

Asiameica Group

POTASSIUM AMINO BENZOATEContract
Pharmalac Corp
Generichem Corp**POTASSIUM BICARBONATE**Alfa Aesar,
A Johnson Matthey Co
Mutchler Pharmaceutical
Ingredients
Vantage**POTASSIUM BIFLUORIDE**Alfa Aesar,
A Johnson Matthey Co
Arkema
Doe Ingalls of
North Carolina**POTASSIUM BITARTRATE (CREAM OF TARTAR)**Parchem Fine
Specialty Chemicals
Scandinavian Formulas**POTASSIUM BROMATE**Albemarle Corp
Alfa Aesar,
A Johnson Matthey Co
Allan Chemical Corp
Doe Ingalls of
North Carolina
Morre-Tec Industries
Scandinavian Formulas**POTASSIUM BROMIDE**BioSpectra
Morre-Tec Industries**POTASSIUM CARBONATE**Albemarle Corp
Allan Chemical Corp
Avantor Performance
Materials
Hawkins,
Pharmaceutical
Mutchler Pharmaceutical
Ingredients**POTASSIUM CHLORIDE**Albemarle Corp
Alfa Aesar,
A Johnson Matthey Co
Avantor Performance
Materials
BioSpectra
Contract
Pharmalac Corp
Hawkins,
Pharmaceutical
Morre-Tec Industries
Mutchler Pharmaceutical
Ingredients
Pharmsolv LLC
Vantage**POTASSIUM CITRATE**Barrington Nutritionals
Generichem Corp
George Uhe Co
KIC Chemicals
Parchem Fine
Specialty Chemicals**POTASSIUM CYANIDE**Alfa Aesar,
A Johnson Matthey Co**POTASSIUM FERRICYANIDE**Alfa Chem
Allan Chemical Corp**POTASSIUM FORMATE**

Albemarle Corp

POTASSIUM GLUCONATEContract
Pharmalac Corp
Generichem Corp
George Uhe Co
Jost Chemical Co**POTASSIUM GLYCERO-PHOSPHATE**Seppic,
Pharmaceutical Div**POTASSIUM GUAIACOL-SULFONATE**

Napp Technologies LLC

POTASSIUM HYDROXIDEAlbemarle Corp
Allan Chemical Corp
Hawkins,
Pharmaceutical

Mutchler Pharmaceutical
Ingredients
Parchem Fine
Specialty Chemicals
Vantage

POTASSIUM IODATE
AIC
Alfa Aesar,
A Johnson Matthey Co
Contract
Pharmal Corp

POTASSIUM IODIDE
AIC
Alfa Aesar,
A Johnson Matthey Co
Alfa Chem
Allan Chemical Corp
Hawkins,
Pharmaceutical
Parchem Fine
Specialty Chemicals

POTASSIUM LACTATE
Generichem Corp
Scandinavian Formulas

POTASSIUM NITRATE
AIC
Allan Chemical Corp
Asiameica Group
Avantor Performance
Materials
CoKEM Assocs
Jost Chemical Co
Scandinavian Formulas
Spectrum Chemical
Mfg Corp
Vantage

POTASSIUM OXALATE
Alfa Aesar,
A Johnson Matthey Co
Allan Chemical Corp
Spectrum Chemical
Mfg Corp

POTASSIUM PERMANGANATE
Doe Ingalls of
North Carolina
Scandinavian Formulas
Spectrum Chemical
Mfg Corp

POTASSIUM PHENYLACETATE
Arkema
Spectrum Chemical
Mfg Corp

POTASSIUM PHOSPHATE, DIBASIC
Allan Chemical Corp
Doe Ingalls of
North Carolina
Jost Chemical Co
Thomas Scientific

POTASSIUM PHOSPHATE, MONOBASIC
Allan Chemical Corp
Avantor Performance
Materials
Doe Ingalls of
North Carolina
Jost Chemical Co

POTASSIUM SORBATE
Asiameica Group
Doe Ingalls of
North Carolina
Helm New York
KIC Chemicals
SuzhouChem

POTASSIUM STEARATE
Alfa Aesar,
A Johnson Matthey Co
Asiameica Group
Chemtura Corp
Doe Ingalls of
North Carolina
Generichem Corp

POTASSIUM SULFAMATE
Scandinavian Formulas

POTASSIUM SULFATE
Alfa Aesar,
A Johnson Matthey Co
Allan Chemical Corp
Asiameica Group
Doe Ingalls of
North Carolina
Jost Chemical Co

POTASSIUM TETRABORATE
Alfa Aesar,
A Johnson Matthey Co
Brenntag North America
Scandinavian Formulas

POTASSIUM THIOCYANATE
Alfa Aesar,
A Johnson Matthey Co
Avantor Performance
Materials
Chemtura Corp
Doe Ingalls of
North Carolina
Scandinavian Formulas

POTASSIUM THIOSULFATE
Avantor Performance
Materials

POVIDONE
Ashland,
Pharmaceutical
BASF Corp, G-ENP
Biddle Sawyer Corp
Chemtura Corp
Generichem Corp
George Uhe Co
International Specialty
Products
Mutchler Pharmaceutical
Ingredients
Napp Technologies LLC

POVIDONE-IODINE USP
AIC
Ashland,
Pharmaceutical
Biddle Sawyer Corp
Napp Technologies LLC

PRAMOKINE HYDROCHLORIDE
AIC
Dastech Intl

PRAMOXINE HCL
Dastech Intl
Napp Technologies LLC

PRAVASTATIN
Kyowa Hakko USA

PRAZQUANTEL
AIC
Helm New York

PREDNISOLONE ACETATE
Parchem Fine
Specialty Chemicals

PREDNISOLONE BASE
Parchem Fine
Specialty Chemicals

PREDNISONE
Parchem Fine
Specialty Chemicals

PREGELATINIZED STARCH
Asahi Kasei Chemical
Corp/Asahi Kasei
America, Functional
Additives Div
Grain Processing Corp
Mutchler Pharmaceutical
Ingredients

PREGNENOLONE
Marcor Development
Corp
Parchem Fine
Specialty Chemicals

PRILOCAINE HCL
BASF Corp, G-ENP
Ceres Chemical Co

PRIMIDONE
Parchem Fine
Specialty Chemicals
Siegfried (USA)

PROCAINAMIDE HCL
Albemarle Corp

PRODUCT SECURITY
Micro-Tracers

PROGESTERONE
Dastech Intl
Kingchem LLC
Pfizer CentreOne

PROMETHAZINE HCL
Napp Technologies LLC

PROPAFENONE HCL
Cambrex

PROPARGYL BROMIDE
Advanced Synthesis,
Chemical Div
Albemarle Corp

PROPIONIC ACID
Arkema
Brenntag North America

PROPOXYLATED ALCOHOLS
ABITEC Corp

PROPOXYPHENE HCL
Brenntag North America
Siegfried (USA)

PROPRANOLOL
Albemarle Corp
Aptalis Pharmaceutical
Technologies

PROPRANOLOL HCL
Albemarle Corp

PROPYL GALLATE
Brenntag North America
Parchem Fine
Specialty Chemicals
Richman Chemical

PROPYLENE GLYCOL
Allan Chemical Corp
Brenntag North America
Doe Ingalls of
North Carolina
Hexion, Epoxy,
Phenolic & Coating
Resins Div
KIC Chemicals

PROPYLENE GLYCOL ALGINATE
Brenntag North America
FMC Corp,
FMC BioPolymer
TIC Gums

PROPYLENE GLYCOL FATTY ACID ESTERS
ABITEC Corp
Croda, Health Care
Mutchler Pharmaceutical
Ingredients

PROPYLENE GLYCOL MONOSTEARATE
ABITEC Corp
Brenntag North America
Gattafossé USA,
Pharmaceutical Div
TIC Gums

PROPYLPARABEN
Doe Ingalls of
North Carolina
Napp Technologies LLC

PROSTAGLANDINS
Pfizer CentreOne

PROTECTING AGENTS
Advanced Synthesis,
Chemical Div
CoKEM Assocs
Morre-Tec Industries

PROTEIN ADSORBENTS
ProteinLabs

PROTEIN BASES
American Labs

PROTEIN DERIVATIVES
ProteinLabs

PROTEIN HYDROLYSATES
American Labs
Kerry
ProteinLabs

PROTEIN NUTRIENTS
PB Leiner USA
Pharmsolv LLC
ProteinLabs
Vernon Walden

PROTEINS
American Labs
Barrington Nutritionals
Lampire Biological Labs
Leprino Foods Dairy
Products Co
PB Leiner USA
ProteinLabs
Vernon Walden
Worthington
Biochemical Corp

PSEUDOEPHEDRINE HCL
Aptalis Pharmaceutical
Technologies
BASF Corp, G-ENP
Dastech Intl
Pharmsolv LLC

PSEUDOEPHEDRINE SULFATE
Asiameica Group
BASF Corp, G-ENP

PSYLLIUM SEED (PLANTAGO SEED)
Barrington Nutritionals
Charles Bowman & Co

PVP/VA COPOLYMERS
Ashland,
Pharmaceutical
BASF Corp, G-ENP
Biddle Sawyer Corp
Generichem Corp
International Specialty
Products

PYRANTEL PAMOATE
AIC
Dastech Intl

PYRANTEL TARTRATE
AIC

PYRIDINE
Regis Technologies,
Custom Pharma

PYRILAMINE MALEATE (MEPYRAMINE)
AIC
Dastech Intl
Lonza
Marcor Development
Corp
Napp Technologies LLC
Parchem Fine
Specialty Chemicals

PYRUVIC ACID
Advanced Synthesis,
Chemical Div

PYRUVIC ACID ETHYL ESTER
Advanced Synthesis,
Chemical Div

QUINIDINE SULFATE
Momentum
Performance Materials

QUININE HYDROCHLORIDE
Penta Mfg Co,
Div Penta Intl Corp

QUININE SULFATE
Asiameica Group

RAMIPRIL
Hetero, Custom
Pharmaceutical
Services

RANITIDINE HCL
Asiameica Group

REAGENT CHEMICALS
Advanced Synthesis,
Chemical Div
Avantor Performance
Materials
Chemtura Corp
Wako Chemicals USA,
Lab Chemicals Div

RESORCINOL
Advanced Synthesis,
Chemical Div
Kraeber & Co GmbH
Napp Technologies LLC
Richman Chemical

RESORCINOL MONOACETATE
Kraeber & Co GmbH

RETINOIC ACID (TRETINOIN)
BASF Corp, G-ENP
DSM Nutritional
Products LLC

RHAMNOSE
Marcor Development
Corp

RIBAVIRIN
Asiameica Group
BASF Corp, G-ENP
Scandinavian Formulas

RIBOFLAVIN SODIUM PHOSPHATE
Asiameica Group
Brenntag North America
Charles Bowman & Co
DSM Nutritional
Products LLC

RIBONUCLEASE
Alfa Chem
ProteinLabs
Worthington
Biochemical Corp

RIBONUCLEIC ACID
Charles Bowman & Co
George Uhe Co
Marcor Development
Corp
Worthington
Biochemical Corp

RISPERIDONE
AIC

ROSE OIL
Arista Industries
George Uhe Co
Jedwards Intl

ROSIN
Hexion, Epoxy,
Phenolic & Coating
Resins Div

RUBIDIUM SALTS
Alfa Aesar,
A Johnson Matthey Co

RUTHENIUM SALTS
Alfa Aesar,
A Johnson Matthey Co

RUTIN
Generichem Corp
Marcor Development
Corp
Vantage

S(+)-IBUPROFEN
Albemarle Corp

SACCHARIN
KIC Chemicals

SACCHARIN SODIUM
Brenntag North America
Dastech Intl
Helm New York
KIC Chemicals
SuzhouChem

SAFFLOWER OIL
Arista Industries
Brenntag North America
Croda, Health Care
Jedwards Intl
KIC Chemicals
Morre-Tec Industries

SAFROLE
Spectrum Chemical
Mfg Corp

SALICYLAMIDE
Contract Pharmal Corp
WeylChem US

SALICYLIC ACID
Brenntag North America
Dastech Intl
Napp Technologies LLC
WeylChem US

For vendor contact information, see Company Directory section.

- SAMARIUM SALTS**
Brenntag Specialties
Soltec Ventures
- SCOPOLAMINE BROMIDE**
Spectrum Chemical
Mfg Corp
- SCOPOLAMINE HYDROBROMIDE**
Alfa Chem
Spectrum Chemical
Mfg Corp
- SEALANTS**
MantroseHauser Co
Momentive
Performance Materials
- SEC-BUTYLLITHIUM**
Advanced Synthesis,
Chemical Div
FMC Lithium
- SECURITY, BRAND PROTECTION**
Micro-Tracers
- SELENIUM DIOXIDE**
Alfa Aesar,
A Johnson Matthey Co
- SELENIUM ON YEAST**
Generichem Corp
Vernon Walden
- SELENIUM SALTS**
Contract
Pharmaceutical Corp
Soltec Ventures
Spectrum Chemical
Mfg Corp
- SELENIUM SULFIDE**
CoKEM Assocs
- SELENIUM YEAST**
Vernon Walden
- SERUM PRODUCTS, ANIMAL**
Electron Microscopy
Sciences
Kraeber & Co GmbH
ProteinLabs
- SERUM PRODUCTS, HUMAN**
Electron Microscopy
Sciences
ProteinLabs
- SESAME OIL**
Arista Industries
Croda, Health Care
Jedwards Intl
KIC Chemicals
Scandinavian Formulas
Spectrum Chemical
Mfg Corp
- SHARK LIVER OIL**
Jedwards Intl
- SILANES**
Alfa Aesar,
A Johnson Matthey Co
Brenntag Specialties
Chemtura Corp
FAR Chemical
Momentive
Performance Materials
OakBark Corp
- SILICA**
Arkema
Bangs Labs
Barrington Nutritionals
Biddle Sawyer Corp
CB Minerals LLC
Chemtech Specialties
- Huber Engineered
Materials, Health &
Nutrition Div
Momentive
Performance Materials
Mutchler Pharmaceutical
Ingredients
Scandinavian Formulas
- SILICA GEL**
Advanced Synthesis,
Chemical Div
Arkema
Avantor Performance
Materials
Biddle Sawyer Corp
CB Minerals LLC
Momentive
Performance Materials
Scandinavian Formulas
- SILICIC ACID**
Scandinavian Formulas
- SILICONE ELASTOMERS**
Lubrizol LifeSciences
Momentive
Performance Materials
- SILICONE FLUID**
Gelest
Momentive
Performance Materials
- SILOXANE, METHYLATED CYCLIC (CYCLOMETHICONE)**
Gelest
Momentive
Performance Materials
OakBark Corp
- SILVER (METAL)**
AIC
Soltec Ventures
Spectrum Chemical
Mfg Corp
- SILVER ACETATE**
Alfa Aesar,
A Johnson Matthey Co
Gelest
Soltec Ventures
Spectrum Chemical
Mfg Corp
- SILVER CHLORIDE**
Advanced Synthesis,
Chemical Div
Alfa Aesar,
A Johnson Matthey Co
Doe Ingalls of
North Carolina
Soltec Ventures
Spectrum Chemical
Mfg Corp
- SILVER CYANIDE**
Alfa Aesar,
A Johnson Matthey Co
Soltec Ventures
Spectrum Chemical
Mfg Corp
- SILVER IODIDE**
Soltec Ventures
Spectrum Chemical
Mfg Corp
- SILVER NITRATE**
Avantor Performance
Materials
Spectrum Chemical
Mfg Corp
- SILVER OXIDE**
Alfa Aesar,
A Johnson Matthey Co
Soltec Ventures
Spectrum Chemical
Mfg Corp
- SILVER SULFATE**
Alfa Aesar,
A Johnson Matthey Co
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Soltec Ventures
Spectrum Chemical
Mfg Corp
- SILYLATING AGENTS**
Advanced Synthesis,
Chemical Div
Biddle Sawyer Corp
Gelest
Momentive
Performance Materials
OakBark Corp
Regis Technologies,
Custom Pharma
Soltec Ventures
- SILYMARIN**
George Uhe Co
- SIMETHICONE EMULSION**
AIC
Momentive
Performance Materials
Parchem Fine
Specialty Chemicals
Spectrum Chemical
Mfg Corp
- SIMETHICONE EMULSION, LOW-SODIUM**
Momentive
Performance Materials
- SIMETHICONE, GRANULAR**
Momentive
Performance Materials
- SIMVASTATIN**
Hetero, Custom
Pharmaceutical
Services
Spectrum Chemical
Mfg Corp
- SITOSTEROL**
Spectrum Chemical
Mfg Corp
- SODIUM 2-[4-(2-HYDROXY-ETHYL)PIPERAZIN-1-YL]ETHANE-SULFONATE (HEPES, NA)**
BioSpectra
- SODIUM 2-MORPHOLIN-4-YLETHANE-SULFONATE (MES, NA)**
BioSpectra
- SODIUM 3-MORPHOLIN-4-YLPROPANE-1-SULFONATE (MOPS, NA)**
BioSpectra
- SODIUM ACETATE**
Allan Chemical Corp
Avantor Performance
Materials
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Jost Chemical Co
Richman Chemical
Spectrum Chemical
Mfg Corp
- SODIUM ALGINATE**
AIC
Spectrum Chemical
Mfg Corp
- SODIUM ALUMINIUM HYDRIDE**
Advanced Synthesis,
Chemical Div
Albemar Corp
- SODIUM AMMONIUM PHOSPHATE**
Brenntag North America
- SODIUM ASCORBATE**
BASF Corp, G-ENP
Brenntag North America
Charles Bowman & Co
DSM Nutritional
Products LLC
Hawkins,
Pharmaceutical
Helm New York
Huber Engineered
Materials, Health &
Nutrition Div
KIC Chemicals
Parchem Fine
Specialty Chemicals
Scandinavian Formulas
SuzhouChem
Vantage
- SODIUM BENZOATE**
Alfa Aesar,
A Johnson Matthey Co
Alfa Chem
Brenntag North America
Dastech Intl
Helm New York
KIC Chemicals
Scandinavian Formulas
Vantage
- SODIUM BICARBONATE**
Alfa Aesar,
A Johnson Matthey Co
Avantor Performance
Materials
Brenntag North America
Doe Ingalls of
North Carolina
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Hawkins,
Pharmaceutical
- SODIUM CHOLATE**
Arkema
Marcor Development
Corp
- SODIUM CITRATE**
Alfa Aesar,
A Johnson Matthey Co
Asiameica Group
Avantor Performance
Materials
Barrington Nutritionals
DSM Nutritional
Products LLC
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Hawkins,
Pharmaceutical
KIC Chemicals
Parchem Fine
Specialty Chemicals
- SODIUM BOROHYDRIDE**
Advanced Synthesis,
Chemical Div
Alfa Aesar,
A Johnson Matthey Co
Chemetall Foote Corp,
Lithium Div
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Hawkins,
Pharmaceutical
The Dow Chemical
Company in North
Andover, Process
Chemicals Div
- SODIUM BROMIDE**
Morre-Tec Industries
- SODIUM CAPRYLATE**
Doe Ingalls of
North Carolina
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Napp Technologies LLC
Richman Chemical
Scandinavian Formulas
- SODIUM CARBONATE**
Alfa Aesar,
A Johnson Matthey Co
Avantor Performance
Materials
Doe Ingalls of
North Carolina
Hawkins,
Pharmaceutical
Jost Chemical Co
Mutchler Pharmaceutical
Ingredients
- SODIUM CARBOXYMETHYL CELLULOSE**
AIC
Ashland,
Pharmaceutical
Biddle Sawyer Corp
Brenntag Specialties
Gumix Intl
KIC Chemicals
Multi-Kem Corp
Mutchler Pharmaceutical
Ingredients
TIC Gums
- SODIUM CHLORIDE**
Arkema
Asiameica Group
Avantor Performance
Materials
Doe Ingalls of
North Carolina
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Hawkins,
Pharmaceutical
- SODIUM HYPOCHLORITE**
Avantor Performance
Materials
Hawkins,
Pharmaceutical
- SODIUM HYDROXIDE**
Avantor Performance
Materials
BioSpectra
Hawkins,
Pharmaceutical
- SODIUM IODIDE**
Allan Chemical Corp
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Thomas Scientific
- SODIUM LAUROYL SARCOSINATE**
Avantor Performance
Materials
- SODIUM LAURYL SULFATE**
Avantor Performance
Materials
Avema Pharma
Chemtura Corp
Doe Ingalls of
North Carolina
- SODIUM DEHYDROCHOLATE**
DSM Pharmaceuticals
Products
- SODIUM DEOXYCHOLATE**
Marcor Development
Corp
- SODIUM FLUORIDE**
AIC
Arkema
Asiameica Group
Avantor Performance
Materials
CoKEM Assocs
- SODIUM FORMATE**
Jost Chemical Co
- SODIUM GLUCONATE**
Asiameica Group
Scandinavian Formulas
UFP Technologies
Vantage
- SODIUM GLYCINATE**
Asiameica Group
Scandinavian Formulas
- SODIUM GLYCINE CARBONATE**
Scandinavian Formulas
- SODIUM GLYCOLATE**
Scandinavian Formulas
UFP Technologies
- SODIUM HYDRIDE**
Advanced Synthesis,
Chemical Div
Alfa Chem
Chemetall Foote Corp,
Lithium Div
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
The Dow Chemical
Company in North
Andover, Process
Chemicals Div

Mutchler Pharmaceutical
Ingredients
Parchem Fine
Specialty Chemicals
Scandinavian Formulas

SODIUM METABISULFITE
Scandinavian Formulas

SODIUM METALLIC
Alfa Aesar,
A Johnson Matthey Co

SODIUM METHYLATE
Doe Ingalls of
North Carolina
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany

SODIUM MONOCHLORO-ACETATE
Arkema

SODIUM NITRATE
Alfa Aesar,
A Johnson Matthey Co
Allan Chemical Corp
Doe Ingalls of
North Carolina
Jost Chemical Co
Thomas Scientific

SODIUM NITRITE
Brenntag North America
Doe Ingalls of
North Carolina

SODIUM OXALATE
Allan Chemical Corp
Doe Ingalls of
North Carolina
Thomas Scientific

SODIUM PHOSPHATE, DIBASIC
Allan Chemical Corp
Avantor Performance
Materials
Brenntag North America
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Hawkins,
Pharmaceutical
Jost Chemical Co
Mutchler Pharmaceutical
Ingredients

SODIUM PHOSPHATE, MONOBASIC
Avantor Performance
Materials
Hawkins,
Pharmaceutical
Jost Chemical Co

SODIUM PHOSPHATE, TRIBASIC
Avantor Performance
Materials
Brenntag North America
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Hawkins,
Pharmaceutical
Jost Chemical Co
Mutchler Pharmaceutical
Ingredients

SODIUM PHOSPHITE
Jost Chemical Co

SODIUM PROPIONATE
Brenntag North America

SODIUM PYROPHOSPHATE
Jost Chemical Co

SODIUM SALICYLATE
Dastech Intl
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Napp Technologies LLC
Vantage

SODIUM SELENATE
Alfa Aesar,
A Johnson Matthey Co
Cherokee
Pharmaceuticals
Contract
Pharmalcor Corp

SODIUM SELENITE
AIC

SODIUM SILICATE
Alfa Chem
Contract
Pharmalcor Corp

SODIUM STARCH GLYCOLATE
Blanver
Dastech Intl
DFE Pharma
Generichem Corp
JRS Pharma
JRS Pharma GmbH &
Co KG
Mutchler Pharmaceutical
Ingredients

SODIUM STEARATE
AIC
Allan Chemical Corp
Brenntag North America
Chemtura Corp
Doe Ingalls of
North Carolina
KIC Chemicals

SODIUM STEARYL FUMARATE
Biddle Sawyer Corp
JRS Pharma
JRS Pharma GmbH &
Co KG
Mutchler Pharmaceutical
Ingredients
SPI Pharma

SODIUM SUCCINATE
Jost Chemical Co
KIC Chemicals

SODIUM SULFATE
Allan Chemical Corp
Avantor Performance
Materials
Chemtura Corp
Doe Ingalls of
North Carolina
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Jost Chemical Co

SODIUM SULFITE
Brenntag North America
Vantage

SODIUM THIOCYANATE
Avantor Performance
Materials
Chemtura Corp
Doe Ingalls of
North Carolina
Richman Chemical

SODIUM THIOSULFATE
Allan Chemical Corp
Avantor Performance
Materials
Doe Ingalls of
North Carolina

SODIUM VALPROATE
Generichem Corp

SOLVENTS, HPLC
Avantor Performance
Materials
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany

SORBIC ACID
KIC Chemicals

SORBITAN ESTERS
Chemtura Corp
Lonza
Seppic,
Pharmaceutical Div

SORBIC FATTY ACID ESTERS
Croda, Health Care
Lonza
Seppic,
Pharmaceutical Div

SORBITOL
Avantor Performance
Materials
Barrington Nutritional
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
KIC Chemicals
Mutchler Pharmaceutical
Ingredients
SPI Pharma

SOY HYDROLYSATE
Doe Ingalls of
North Carolina
George Uhe Co
Kerry
Marcor Development
Corp

SOY OIL
Arista Industries
Croda, Health Care
Jedwards Intl

SOY PROTEIN CONCENTRATE
George Uhe Co

SPEARMINT OIL
Arista Industries
Jedwards Intl
KIC Chemicals

SPERMACETI, SYNTHETIC
Croda, Health Care
Frank B Ross Co
Strahl & Pitsch

SPHINGOLIPIDS
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Vernon Walden

SPIRONOLACTONE
Piramal Pharma
Solutions

SQUALANE
Arista Industries
Jedwards Intl
Parchem Fine
Specialty Chemicals

STANNOUS FLUORIDE
AIC

STARCH
Colorcon
Doe Ingalls of
North Carolina
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Generichem Corp
Grain Processing Corp
Multi-Kem Corp
Mutchler Pharmaceutical
Ingredients

STARCH, COMPRESSIBLE
Biddle Sawyer Corp
Brenntag North America
Colorcon
Generichem Corp
Grain Processing Corp
Mutchler Pharmaceutical
Ingredients

STARCH, POTATO, MODIFIED
Brenntag North America
Colorcon
Generichem Corp
Mutchler Pharmaceutical
Ingredients
Vantage

STAVUDINE
Hetero, Custom
Pharmaceutical
Services

STEARIC ACID
AIC
Arista Industries
Avantor Performance
Materials
Chemtura Corp
Frank B Ross Co
Generichem Corp
Jedwards Intl
KIC Chemicals
Mutchler Pharmaceutical
Ingredients

STEARYL ALCOHOL
Croda, Health Care
Doe Ingalls of
North Carolina
KIC Chemicals
Mutchler Pharmaceutical
Ingredients

STEROIDS
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany

STORAX
Dastech Intl

STREPTOMYCIN SULFATE
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Helm New York

STREPTOZOCIN
Wako Chemicals USA,
Lab Chemicals Div

STRONTIUM CHLORIDE
Allan Chemical Corp
Cherokee
Pharmaceuticals
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany

STRONTIUM SALTS
Alfa Aesar,
A Johnson Matthey Co
Allan Chemical Corp

SUCCINIC ACID
Allan Chemical Corp
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
KIC Chemicals
Parchem Fine
Specialty Chemicals

SUCCINIC ANHYDRIDE
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany

SUCROSE
Avantor Performance
Materials
BioSpectra
Hawkins,
Pharmaceutical

SUCROSE ESTERS
Croda, Health Care
Gattefossé USA,
Pharmaceutical Div
Helm New York
Multi-Kem Corp
Mutchler Pharmaceutical
Ingredients

SUDAN BLACK B
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany

SUGAR
Avantor Performance
Materials
Mutchler Pharmaceutical
Ingredients
Paulaur Corp

SUGAR SPHERES
Colorcon
Paulaur Corp

SUGAR, COMPRESSIBLE
Doe Ingalls of
North Carolina
Domino Foods, Domino
Specialty Ingredients
Mutchler Pharmaceutical
Ingredients
Paulaur Corp

SUGAR, CONFECTIONERS'
Doe Ingalls of
North Carolina
Domino Foods, Domino
Specialty Ingredients
Mutchler Pharmaceutical
Ingredients
Paulaur Corp

SULFACETAMIDE
Asiameica Group
Generichem Corp

SULFACETAMIDE SODIUM
Generichem Corp

SULFADIAZINE SODIUM SALT
Asiameica Group

SULFAMETHAZINE
Asiameica Group

SULFAMETHAZINE SODIUM
Asiameica Group

SULFAMETHIZOLE
Asiameica Group

SULFAMIC ACID
Dastech Intl
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Spectrum Chemical
Mfg Corp

SULFANILAMIDE
Napp Technologies LLC

SULFASALAZINE
Cambrex

SULFONATES
Chemtura Corp
Regis Technologies,
Custom Pharma

SULFONIC ACID DERIVATIVES, PERFLUORINATED
Arkema
Kingchem LLC

SULFOSUCCINATES
Chemtura Corp

SULFUR
Arkema
Spectrum Chemical
Mfg Corp

SULFURIC ACID
Arkema
Avantor Performance
Materials
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany

SULINDAC
Spectrum Chemical
Mfg Corp

SUPEROXIDE DISMUTASE
Marcor Development
Corp
ProteinLabs
Worthington
Biochemical Corp

SUPPOSITORY BASES
ABITEC Corp

SURFACE ACTIVE AGENTS
ABITEC Corp
Albemarle Corp
Alconox
Arkema
Chemtura Corp
CoKEM Assocs
Croda, Health Care
Cytec Industries,
Additive Technologies
Gattefossé USA,
Pharmaceutical Div
Momentive
Performance Materials
Mutchler Pharmaceutical
Ingredients
Vantage

SURFACE ACTIVE INGREDIENTS, NONIONIC
ABITEC Corp
Albemarle Corp
Alconox
CoKEM Assocs
Croda, Health Care
Gattefossé USA,
Pharmaceutical Div
Mutchler Pharmaceutical
Ingredients
Vantage

SUSPENDING AGENTS
Arkema
Biddle Sawyer Corp
Brenntag Specialties

For vendor contact information, see Company Directory section.

CoKEM Assocs
CP Kelco,
A JM Huber Co
FMC Corp,
FMC BioPolymer
Gattefossé USA,
Pharmaceutical Div
Grain Processing Corp
Momentive
Performance Materials
TIC Gums
Vantage

**SWEETNESS
POTENTIATORS**
Virginia Dare

**SYRINGIC ACID,
TECHNICAL**
INDOFINE Chemical Co

T-BUTYL ACETATE
Albemarle Corp
Penta Mfg Co,
Div Penta Intl Corp
Scandinavian Formulas

T-BUTYL ALCOHOL
Alfa Aesar,
A Johnson Matthey Co
Penta Mfg Co,
Div Penta Intl Corp

**T-BUTYLDIMETHYL-
CHLOROSILANE**
Advanced Synthesis,
Chemical Div
Gelest
OakBark Corp

**T-BUTYLDIPHENYL-
CHLOROSILANE**
Advanced Synthesis,
Chemical Div
Gelest
OakBark Corp

TABLETING AGENTS
BASF Corp, G-ENP
Biddle Sawyer Corp
Brenntag Specialties
Charles B Chrystal
Colorcon
FMC Corp,
FMC BioPolymer
Gattefossé USA,
Pharmaceutical Div
Generichem Corp
Grain Processing Corp
Kerry
Multi-Kem Corp
Mutchler Pharmaceutical
Ingredients
Specialty Minerals
Spectrum Chemical
Mfg Corp

**TABLETING BASES,
PREGANULATED**
Colorcon
Huber Engineered
Materials, Health &
Nutrition Div

TALC
Charles B Chrystal

TAMOXIFEN
Doe Ingalls of
North Carolina
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Spectrum Chemical
Mfg Corp

**TAMOXIFEN
CITRATE**
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany

TARTARIC ACID
Glatt Pharmaceutical
Services
KIC Chemicals

TAURINE
Charles Bowman & Co
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Helm North York

TERAZOSIN
Alfa Chem

**TERBUTALINE
SULFATE**
Cambrex

TERCONAZOLE
Albemarle Corp

TERFENADINE
Sekisui XenoTech, LLC

TERPIN HYDRATE
Cambrex

TERPINEOL
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany

TESTOSTERONE
Pfizer CentreOne
Spectrum Chemical
Mfg Corp

**TESTOSTERONE
CYPIONATE**
Spectrum Chemical
Mfg Corp

**TESTOSTERONE
ENANTHATE**
Spectrum Chemical
Mfg Corp

**TESTOSTERONE
PROPIONATE**
Pfizer CentreOne
Spectrum Chemical
Mfg Corp

TETRACAINE
Albemarle Corp
BASF Corp, G-ENP
Ceres Chemical Co
Dastech Intl
Napp Technologies LLC
Spectrum Chemical
Mfg Corp

TETRACAINE HCL
Albemarle Corp
BASF Corp, G-ENP
Ceres Chemical Co
Dastech Intl
Napp Technologies LLC
Vantage

TETRACYCLINE HCL
Doe Ingalls of
North Carolina
Helm North York

**TETRAHYDRO-
FURFURYL
ALCOHOL**
Advanced Synthesis,
Chemical Div

TETRAHYDROZOLINE
Albemarle Corp

**TETRAHYDRO-
ZOLINE HCL**
Albemarle Corp
Napp Technologies LLC

**TETRASODIUM
ETHYLENEDIAMIN-
ETETRAACETATE**
Vantage

**TETRASODIUM
PYROPHOSPHATE**
Allan Chemical Corp
Vantage

THEOPHYLLINE
Aptalis Pharmaceutical
Technologies
BASF Corp, G-ENP
Ceres Chemical Co
Dastech Intl

**THEOPHYLLINE
SODIUM GLYCINATE**
Napp Technologies LLC

**THIAMINE
MONONITRATE**
BASF Corp, G-ENP
Charles Bowman & Co
Dastech Intl
DSM Nutritional
Products LLC
Huber Engineered
Materials, Health &
Nutrition Div

**THICKENING
AGENTS**
Ashland,
Pharmaceutical
Biddle Sawyer Corp
Brenntag Specialties
Chemtura Corp
CoKEM Assocs
CP Kelco,
A JM Huber Co
FMC Corp,
FMC BioPolymer
Grain Processing Corp
Hexion, Epoxy,
Phenolic & Coating
Resins Div
MantroseHaeuser Co
Multi-Kem Corp
TIC Gums
Vantage

THIOACETAMIDE
Arkema

THIOACETIC ACID
Arkema

THIOCTIC ACID
Advanced Synthesis,
Chemical Div
Arkema
Biolink Life Sciences
Marcor Development
Corp

THIOGLYCOLIC ACID
Arkema

THIONYL CHLORIDE
Spectrum Chemical
Mfg Corp

THIOPHENE
Advanced Synthesis,
Chemical Div
Arkema
Spectrum Chemical
Mfg Corp

THIORIDAZINE HCL
Parchem Fine
Specialty Chemicals

**THIOSALICYLIC
ACID**
Advanced Synthesis,
Chemical Div
Spectrum Chemical
Mfg Corp

THIOSEMICARBAZIDE
Richman Chemical

THIOUREA
Allan Chemical Corp
Avantor Performance
Materials
Cherokee
Pharmaceuticals
Dastech Intl
Parchem Fine
Specialty Chemicals
Richman Chemical

THREONINE
Asiameica Group
BioSpectra
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Evonik Corp,
Health Care
Helm North York
Kyowa Hako USA

THROMBIN
ProteinLabs

THYMOL
Kraeber & Co GmbH

THYROID
Kraeber & Co GmbH

TICLOPIDINE HCL
Dastech Intl
Spectrum Chemical
Mfg Corp

TIMOLOL MALEATE
Asiameica Group
Napp Technologies LLC

TIN
Alfa Aesar,
A Johnson Matthey Co
Soltec Ventures

**TISSUE CULTURE
MEDIA**
Doe Ingalls of
North Carolina
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Lonza

**TITANIUM AND
SALTS**
Alfa Aesar,
A Johnson Matthey Co

TITANIUM DIOXIDE
AIC
Alfa Aesar,
A Johnson Matthey Co
Asiameica Group
Brenntag Specialties
CB Minerals LLC
Cristal
KIC Chemicals
Mutchler Pharmaceutical
Ingredients

TITANIUM DIOXIDE
AIC
Alfa Aesar,
A Johnson Matthey Co
Asiameica Group
Brenntag Specialties
CB Minerals LLC
Cristal
KIC Chemicals
Mutchler Pharmaceutical
Ingredients

TOCOPHEROLS
Barrington Nutritionals
Jedwards Intl
KIC Chemicals

TOCOTRIENOLS
Barrington Nutritionals
Jedwards Intl

TOLBUTAMIDE
Sekisui XenoTech, LLC

TOLNAFTATE
AIC
Asiameica Group
Dastech Intl
Napp Technologies LLC
Parchem Fine
Specialty Chemicals

TOLU BALSAM OIL
Pangaea Sciences
Spectrum Chemical
Mfg Corp

TOLUENE
Momentive
Performance Materials

TOLUIDINE BLUE
Wako Chemicals USA,
Lab Chemicals Div

TRAGACANTH
Gumix Intl

**TRAMADOL
HYDROCHLORIDE**
AIC
Alfa Chem

TRANSFERRIN
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Pangaea Sciences
ProteinLabs

TRAZODONE HCL
Piramal Pharma
Solutions
Spectrum Chemical
Mfg Corp

TREHALOSE
Asahi Kasei Chemical
Corp/Asahi Kasei
America, Functional
Additives Div
BioSpectra
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Marcor Development
Corp
Parchem Fine
Specialty Chemicals
Spectrum Chemical
Mfg Corp

TRI-N-BUTYLAMINE
Avantor Performance
Materials

TRIA CETIN
Allan Chemical Corp
Mutchler Pharmaceutical
Ingredients

TRIAZOLAM
Cambrex

TRIBUTYL CITRATE
Allan Chemical Corp
Mutchler Pharmaceutical
Ingredients
Spectrum Chemical
Mfg Corp

**TRICALCIUM
PHOSPHATE**
Jost Chemical Co

**TRICHLORO-
ACETAMIDE**
Spectrum Chemical
Mfg Corp

**TRICHLOROACETIC
ACID**
Alfa Aesar,
A Johnson Matthey Co
Allan Chemical Corp
Spectrum Chemical
Mfg Corp

**TRITHANOLAMINE
LAURYL SULFATE**
Chemtura Corp
Vantage

TRIETHYL CITRATE
Allan Chemical Corp

Mutchler Pharmaceutical
Ingredients
Spectrum Chemical
Mfg Corp

**TRIETHYL
PHOSPHATE**
Spectrum Chemical
Mfg Corp

TRIETHYLAMINE
Advanced Synthesis,
Chemical Div
Arkema
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany

**TRIETHYLENE
GLYCOL**
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Parchem Fine
Specialty Chemicals

TRIETHYLSILANE
Advanced Synthesis,
Chemical Div
Alfa Aesar,
A Johnson Matthey Co
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Gelest
OakBark Corp

**TRIFLUOROMETHANE
SULFONIC ACID
(TRIFLIC ACID)**
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany

**TRIFLUORO-
METHANESULFONIC
ANHYDRIDE
(TRIFLIC
ANHYDRIDE)**
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany

**TRIMETHO-
BENZAMIDE HCL**
Siegfried (USA)

**TRIMETHYLENE
CARBONATE**
Richman Chemical

**TRIMETHYLSILYL-
TRIFLUORO-
METHANE
SULFONATE**
Advanced Synthesis,
Chemical Div
Cherokee
Pharmaceuticals
Gelest
OakBark Corp

**TRIPLENNAMINE
HCL**
Napp Technologies LLC

**TRIPHENYL
PHOSPHINE**
Advanced Synthesis,
Chemical Div
Arkema

TRIPROLDINE HCL
Lonza

TROLAMINE
Thomas Scientific

TROMETHAMINE
Avantor Performance
Materials
BioSpectra
Spectrum Chemical
Mfg Corp

TROPICAMIDE

Napp Technologies LLC

TRYPSIN

American Labs
Marcor Development Corp
Pangaea Sciences
Worthington
Biochemical Corp

TURMERIC

Barrington Nutritionals
INDOFINE Chemical Co

TYLOSIN

Helm New York

TYROSINE

BioSpectra
Charles Bowman & Co
Dastech Intl
George Uhe Co
Kyowa Hakko USA
Sekisui XenoTech, LLC

UNDECYLENIC ACID

Arkema
Penta Mfg Co,
Div Penta Intl Corp
Scandinavian Formulas

URANINE

Kraeber & Co GmbH

UREA

AIC
Avantor Performance
Materials
BioSpectra
Chemtura Corp
Dastech Intl
Scandinavian Formulas

UV ABSORBERS

BASF Corp, G-ENP
Chemtech Specialties
Chemtura Corp
Dastech Intl
Momentive
Performance Materials
Parchem Fine
Specialty Chemicals
Vantage

VALERIC ACID

Alfa Chem

VALEROLACTONE

Advanced Synthesis,
Chemical Div

VALINE

BioSpectra
Evonik Corp,
Health Care
Kyowa Hakko USA
Sekisui XenoTech, LLC

VALPROIC ACID

Generichem Corp

VANADIUM

Vantage

VANCOMYCIN

Parchem Fine
Specialty Chemicals

VANILLA

Jedwards Intl
Virginia Dare

VANILLA OIL

Scandinavian Formulas
Virginia Dare

VANILLIN

Helm New York
KIC Chemicals
Mutchler Pharmaceutical
Ingredients
Virginia Dare

VANILLYLACETONE

Advanced Synthesis,
Chemical Div
Scandinavian Formulas

VASOPRESSIN

Helm New York
ProteinLabs

VERAPAMIL HCL

Piramal Pharma
Solutions

VERATRALDEHYDE

Penta Mfg Co,
Div Penta Intl Corp

VINCRISTINE

SULFATE

EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Wako Chemicals USA,
Lab Chemicals Div

VITAMIN A

Arista Industries
Barrington Nutritionals
Morre-Tec Industries

VITAMIN B₁

Charles Bowman & Co
Dastech Intl
DSM Nutritional
Products LLC
Fortitech
Helm New York
Huber Engineered
Materials, Health &
Nutrition Div
Scandinavian Formulas
SuzhouChem

VITAMIN B₂

BASF Corp, G-ENP
Charles Bowman & Co
Doe Ingalls of
North Carolina
DSM Nutritional
Products LLC
Fortitech
Helm New York
Vantage

VITAMIN B₆

Alfa Chem
BASF Corp, G-ENP
Charles Bowman & Co
Dastech Intl
DSM Nutritional
Products LLC
Fortitech
Helm New York

VITAMIN B₁₂

BASF Corp, G-ENP
Charles Bowman & Co
Dastech Intl
DSM Nutritional
Products LLC
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Fortitech
Helm New York
Huber Engineered
Materials, Health &
Nutrition Div
KIC Chemicals
SuzhouChem

VITAMIN D

Arista Industries
Barrington Nutritionals
Morre-Tec Industries

VITAMIN D₂

Asiamerica Group
Brenntag North America
Charles Bowman & Co
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Fortitech
Morre-Tec Industries
Vernon Walden

VITAMIN D₃

Arista Industries
Asiamerica Group
BASF Corp, G-ENP
Brenntag North America
Charles Bowman & Co
Doe Ingalls of
North Carolina
DSM Nutritional
Products LLC
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Fortitech
Helm New York
Morre-Tec Industries
Vernon Walden

VITAMIN E

AIC
Arista Industries
Asiamerica Group
Barrington Nutritionals
BASF Corp, G-ENP
Brenntag North America
Charles Bowman & Co
Dastech Intl
DSM Nutritional
Products LLC
Fortitech
Helm New York
Kingchem LLC
Morre-Tec Industries
Vernon Walden

VITAMIN K

Asiamerica Group
BASF Corp, G-ENP
Brenntag North America
Dastech Intl
DSM Nutritional
Products LLC
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Fortitech
Helm New York
Kyowa Hakko USA
Morre-Tec Industries

**WATER SOLUBLE
POLYMERS**

Ashland,
Pharmaceutical
BASF Corp, G-ENP
Brenntag Specialties
CP Kelco,
A JM Huber Co
Evonik Corp,
Health Care

**WAXES,
EMULSIFYING**

Brenntag North America
Brenntag Specialties
CoKEM Assocs
Croda, Health Care
Gattefossé USA,
Pharmaceutical Div
Hexion, Epoxy,
Phenolic & Coating
Resins Div
Jedwards Intl
Lonza
Mutchler Pharmaceutical
Ingredients
Vantage

**WAXES,
MICROCRYSTALLINE**

Brenntag Specialties
CoKEM Assocs
Frank B Ross Co
Hexion, Epoxy,
Phenolic & Coating
Resins Div
Mutchler Pharmaceutical
Ingredients
Shamrock Technologies
Strahl & Pitsch

WAXES, SYNTHETIC

Croda, Health Care
Hexion, Epoxy,
Phenolic & Coating
Resins Div

WAXES, WHITE

Brenntag North America
Brenntag Specialties
Frank B Ross Co
Hexion, Epoxy,
Phenolic & Coating
Resins Div
Jedwards Intl
Mutchler Pharmaceutical
Ingredients
Strahl & Pitsch

WAXES, YELLOW

Brenntag North America
Brenntag Specialties
Frank B Ross Co
Hexion, Epoxy,
Phenolic & Coating
Resins Div
Jedwards Intl
Mutchler Pharmaceutical
Ingredients
Strahl & Pitsch

WETTING AGENTS

Brenntag Specialties
Chemtura Corp
CoKEM Assocs
Croda, Health Care
Gattefossé USA,
Pharmaceutical Div
Momentive
Performance Materials

WHEAT GERM OIL

Arista Industries
Jedwards Intl
KIC Chemicals

WHEAT GLUTEN

Brenntag North America
ProteinLabs

**WHEY PROTEIN
CONCENTRATES**

Leprino Foods Dairy
Products Co

WOOL WAX

ALCOHOL
Alfa Chem
Croda, Health Care

XANTHAN GUM

CP Kelco,
A JM Huber Co
Doe Ingalls of
North Carolina
Gumix Intl
Hexion, Epoxy,
Phenolic & Coating
Resins Div
KIC Chemicals
MantroseHaeuser Co
Multi-Kem Corp
Mutchler Pharmaceutical
Ingredients
TIC Gums
Vanderbilt Minerals LLC

XYLENE

Cherokee
Pharmaceuticals
Doe Ingalls of
North Carolina

XYLENOL

Thomas Scientific

XYLITOL

AIC
Barrington Nutritionals
KIC Chemicals

**XYLITOL, DIRECT
COMPRESSION**

Barrington Nutritionals
Doe Ingalls of
North Carolina
Huber Engineered
Materials, Health &
Nutrition Div
Mutchler Pharmaceutical
Ingredients

**XYLITOL,
PYROGEN-FREE**

Alfa Chem
Mutchler Pharmaceutical
Ingredients

XYLOSE

Penta Mfg Co,
Div Penta Intl Corp

**YEAST AND YEAST
PRODUCTS**

Kerry
Marcor Development
Corp
Vernon Walden

**YEAST
HYDROLYSATE**

Marcor Development
Corp
Vernon Walden

YTTRIUM OXIDE

Brenntag Specialties
Soltec Ventures

ZEIN

Biddle Sawyer Corp
MantroseHaeuser Co

ZINC

Brenntag Specialties
Charles Bowman & Co
Soltec Ventures
Vantage

ZINC ACETATE

Allan Chemical Corp
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Soltec Ventures

ZINC BROMIDE

Albemarle Corp
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Morre-Tec Industries
Soltec Ventures

ZINC CARBONATE

Generichem Corp
Soltec Ventures

ZINC CHLORIDE

AIC
Allan Chemical Corp
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Soltec Ventures
Vantage

ZINC CITRATE

Advanced Synthesis,
Chemical Div
Generichem Corp
George Uhe Co
Jost Chemical Co
Soltec Ventures

ZINC GLUCONATE

George Uhe Co
Jost Chemical Co

ZINC GLYCINATE

Generichem Corp
Scandinavian Formulas
Soltec Ventures

ZINC HEPARIN

Scandinavian Formulas
Soltec Ventures

ZINC LACTATE

Generichem Corp
Jost Chemical Co
Soltec Ventures

ZINC NITRATE

Allan Chemical Corp
Scandinavian Formulas
Soltec Ventures

ZINC OXIDE

AIC
Alfa Aesar,
A Johnson Matthey Co
Barrington Nutritionals
Brenntag Specialties
CB Minerals LLC
CoKEM Assocs
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Generichem Corp
Helm New York
Jost Chemical Co
Scandinavian Formulas
Soltec Ventures

**ZINC
PHENOLSULFONATE**

Soltec Ventures

ZINC STEARATE

AIC
Alfa Aesar,
A Johnson Matthey Co
Allan Chemical Corp
Brenntag Specialties
Chemtura Corp
Doe Ingalls of
North Carolina
Generichem Corp
KIC Chemicals
Soltec Ventures

ZINC SULFATE

Jost Chemical Co

ZINC SULFIDE

Arkema
Brenntag Specialties
Soltec Ventures

**ZINC
UNDECYLENATE**

Arkema

ZINC, POWDERED

EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Soltec Ventures

ZIRCONIUM (METAL)

Alfa Aesar,
A Johnson Matthey Co
Alfa Chem
Dastech Intl
Soltec Ventures ■



equipment & supplies

MANUFACTURING

See listings online at PharmTech.com

For vendor contact information, see Company Directory section.

ABSOLUTE BARRIER ISOLATORS

Atmos-Tech Industries
AWS Bio-Pharma
Technologies
BIOQUELL, Life Sciences
Cozzoli Machine Co
Custom Powder Systems.
The Containment Co
EquipNet
ESCO Technologies,
Esco Pharma Factory
Extract Technology
F.P.S. Food and Pharma
Systems srl
FabOhio
Flanders Corp,
Containment Products
Getinge USA,
Life Science
ILC Dover
Integrated Containment
Systems
ISO Tech Design
Isolation Systems
Laminar Flow
Mendel Co
Nicos Group
Optima Machinery Corp
Pharmasystems
**Robert Bosch Packaging
Technology,
Pharmaceutical
Operations**
Shibuya Hoppmann Corp
The Baker Co

AEROSOL DELIVERY SYSTEMS

Ball
EquipNet

AEROSOL EQUIPMENT

Air Techniques Intl (ATI)
Champion Trading Corp
EquipNet
Justrite

AEROSOL GENERATORS

Air Techniques Intl (ATI)
EquipNet

AGGLOMERATORS

AC Compacting LLC
Alexanderwerk
APD Systems
Draiswerke
EquipNet
Evaporator Dryer
Technologies
Federal Equipment Co
Fitzpatrick Co
Fluid Air, Spraying
Systems Co
Freund-Vector Corp
GEA Process
Engineering, GEA
Pharma Systems
GEMCO
HealthStar
Hosokawa Micron
Powder Systems
International Process
Plants IPP
Mendel Co
Olsa USA

Patterson Kelley
Servolift

AIR COMPRESSORS

EquipNet
Ingersoll-Rand,
Compressed Air
Solutions
Keith Machinery Corp
Parker Hannifin

AIR POLLUTION CONTROL EQUIPMENT

Airgas
Anquil Environmental
Systems
BETE Fog Nozzle
Biological Controls
Bionomic Industries
Buffalo Filter
CECO Environmental
Control Instruments Corp
E Instruments Intl
EHS Solutions LLC
EquipNet
Flanders Corp,
Containment Products
Flow Sciences
Goyen Valve LLC, Pentair
Environmental Systems
HEMCO Corp
Hosokawa Micron
Powder Systems
Munters Corp
Nordfab Ducting
Plymovent NA
Praxair
Schutte & Koerting
Scientific Dust Collectors
Technovation Systems
Vac-U-Max
Wm. W. Meyer & Sons

AIRTIGHT ENCLOSURES, ISOLATORS, MANIPULATORS

BIOQUELL, Life Sciences
EquipNet
ESCO Technologies,
Esco Pharma Factory
F.P.S. Food and Pharma
Systems srl
FabOhio
Federal Equipment Co
Flanders Corp,
Containment Products
ISO Tech Design
Isolation Systems
Mendel Co
Optima Machinery Corp
Process Tek

ALARM SYSTEMS

BinMaster,
Div Garner Industries
Control 7
EquipNet
Flow Sciences
GE Sensing & Inspection
Technologies
Hampshire Controls Corp
HEMCO Corp
ICONICS
Isolation Systems
Mil-Ram Technology
Oseco

Rees Scientific
Rockwell Automation
Sensaphone
Uehling Instrument Co

ALARMS, TEMPERATURE

Acromag
Bel-Art Products
EquipNet
Hampshire Controls Corp
JH Technology
Mesa Labs
Rees Scientific
Sensaphone
Two Dimensional
Instruments

ALUMINUM PALLETS

EquipNet
MO Industries
Ronl
Servolift

AMPUL TESTING DEVICES

AWS Bio-Pharma
Technologies
Bioscience
Mecmesin Corp
Michael Benalt
Process Tek
PTI Packaging
Technologies &
Inspection LLC
Seidenader
Maschinenbau GmbH
Texture Technologies
Corp

AMPUL WASHING EQUIPMENT

AWS Bio-Pharma
Technologies
Bausch Advanced
Technologies
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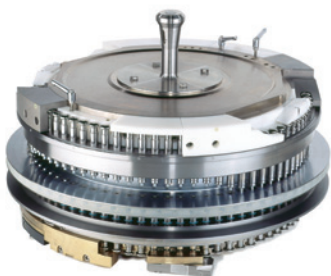
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Technology,
Pharmaceutical
Operations**
Ryan Specialty Valve
Products LLC
Sioux Corp
Strahman Valves
Yamada America

**CLEANING
EQUIPMENT, STEAM**

AWS Bio-Pharma
Technologies
EquipNet
Optima Machinery Corp
Pick Heaters
Reimers Electra Steam
Sioux Corp
Spirax Sarco

**CLEANING
EQUIPMENT, VAPOR**

AWS Bio-Pharma
Technologies
BIOQUELL,
Life Sciences
Custom Powder
Systems. The
Containment Co

**CLEANING
EQUIPMENT,
WASHING**

Alfa Laval Tank
Equipment
APD Systems
ARCHON Industries
AWS Bio-Pharma
Technologies
Bausch Advanced
Technologies
Bel-Art Products
BETE Fog Nozzle
BlackstoneNEY
Ultrasonics
Branson Ultrasonics
Corp
Champion Trading Corp
Cozzoli Machine Co
Custom Powder
Systems. The
Containment Co
Distek
Dycem
EquipNet
ESC, Electrol
Specialties Co
EZ Environmental
Solutions Corp
Fluid Air, Spraying
Systems Co
Gamajet Cleaning
Systems

GEA Process
Engineering, GEA
Pharma Systems
Getinge USA,
Life Science
Girton Mfg Co,
Pharmaceutical Div
groninger USA L.L.C
HealthStar
KINESPIN Div of
Kinefac Corp
L&R Mfg
Lancer USA
Miele, Professional
Products Div
Milestone
NexGen Enviro Systems
Nicos Group
Olsa USA
Optima Machinery Corp
Perfex Corp
Ryan Specialty Valve
Products LLC
Servolift
Sioux Corp
Strahman Valves
WRH Industries Ltd
Yamada America

**COATING
EQUIPMENT,
COATING PANS**

AC Compacting LLC
ACG North America LLC
Driam USA
EquipNet
Federal Equipment Co
Fluid Air, Spraying
Systems Co
Freund-Vector Corp
Glatt Air Techniques
HealthStar
IMA North America
Keith Machinery Corp
Key Intl

LB Bohle LLC
Michael Benalt
Nicos Group
Olsa USA
ProCePT
Servolift
Werner Mathis USA,
North America
WRH Industries Ltd

**COATING
EQUIPMENT,
DRYING OVENS,
HUMIDITY
CONTROLLED**

AWS Bio-Pharma
Technologies
BETE Fog Nozzle
Champion Trading Corp
Contract Pharmacal
Corp
Custom Heat LLC
EquipNet
Federal Equipment Co
Freund-Vector Corp
HealthStar
Keith Machinery Corp
Michael Benalt
Nicos Group
Olsa USA
**Robert Bosch Packaging
Technology,
Pharmaceutical
Operations**
Verder Scientific,
North America
Werner Mathis USA,
North America

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EquipNet
Federal Equipment Co
Freund-Vector Corp
IMA North America
Key Intl
LB Bohle LLC
Mendel Co
Michael Benalt
Nicos Group
Olsa USA
ProCepT
Servolift
Thomas Scientific

COATING EQUIPMENT, FLUIDIZED-BED

AC Compacting LLC
ACG North America LLC
B&P Littleford
Champion Trading Corp
EquipNet
Federal Equipment Co
Fluid Air, Spraying Systems Co

Freund-Vector Corp

GEA Process
Engineering, GEA
Pharma Systems

GEMCO
Glatt Air Techniques
IMA North America
Key Intl

LB Bohle LLC

Mendel Co

Michael Benalt

Nicos Group

Olsa USA

ProCepT

Robert Bosch Packaging

Technology,
Pharmaceutical
Operations

Romaco North

American

Servolift

COATING EQUIPMENT, HOT AIR SYSTEMS

AC Compacting LLC
B&P Littleford
Champion Trading Corp
EquipNet
Federal Equipment Co
IMA North America
Mendel Co
Michael Benalt
Nicos Group
Olsa USA
ProCepT
Servolift
Werner Mathis USA,
North America

COATING EQUIPMENT, STEAM-JACKETED COOKING KETTLES

B&P Littleford
EquipNet
Federal Equipment Co
Feldmeier Equipment
Lee Industries, Process Systems & Equipment/
Fluid Transfer Div
Mendel Co
Michael Benalt
Nicos Group
Pick Heaters

COLLATING SYSTEMS (FOR CARTONS, BOTTLES, ETC.)

Cermex
EAM

EquipNet
Garvey Corp
IMA North America

COLLOID MILLS

Arde Barinco,
Aerojet Rocketdyne
BEE Intl
Bematek Systems
Charles Ross & Son Co
Draiswerke
EquipNet
Glen Mills
HealthStar
IKA Works,
Lab, Analytical and
Process Equipment
International Process
Plants IPP
Michael Benalt
Nicos Group
Olsa USA
Silverson Machines
Verder Scientific,
North America
Waukesha Cherry-
Burrell, An SPX Flow
Brand, SPX Flow

COLOR MATCHING EQUIPMENT

Champion Trading Corp
EquipNet
Keith Machinery Corp
Konica Minolta Sensing
Americas

COMMINUTORS

EquipNet
F.P.S. Food and Pharma
Systems srl
Franklin Miller
Glen Mills
HealthStar
International Process
Plants IPP
Keith Machinery Corp
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Silverson Machines
Urschel

CONNECTORS, FLUID

CPC -
Colder Products Co
Powder-Solutions

CONTAINER CLEANING EQUIPMENT

BETE Fog Nozzle
BIOQUELL,
Life Sciences
Branson Ultrasonics
Corp
Cozzoli Machine Co
Custom Powder
Systems. The
Containment Co
EquipNet
GEA Process
Engineering, GEA
Pharma Systems
Getinge USA,
Life Science
groninger USA L.L.C
HealthStar
IMA North America
Integrated Containment
Systems
Kaps-All Packaging
Systems
Micro Measurement
Labs
MO Industries
New England Machinery
NexGen Enviro Systems
Nicholson Steam Trap,
Div Circoor Intl
Nicos Group

For vendor contact information, see Company Directory section.

Optima Machinery Corp
Seidenader
Maschinenbau GmbH
Servolift
WRH Industries Ltd
Yamada America

CONTAINER DRYING EQUIPMENT

BETE Fog Nozzle
COMBER Process
Technology S.r.l.
Custom Powder
Systems. The
Containment Co
EquipNet
EXAIR Corp
Getinge USA,
Life Science
MO Industries
Nicos Group
Olsa USA
Optima Machinery Corp
Seidenader
Maschinenbau GmbH
Servolift

CONTAINER HANDLING SYSTEMS

Auto-Mate
Technologies LLC
Custom Powder
Systems. The
Containment Co
EHS Solutions LLC
EquipNet
Excalibur Miretti
Group LLC
Garvey Corp
groninger USA L.L.C
HealthStar
IMA North America
Integrated Containment
Systems
Kaps-All Packaging
Systems
Liftomatic Material
Handling
MagneMotion
METO Corp
MO Industries
Modular Packaging
Systems
New England Machinery
Nicos Group
Omega Design Corp
Optima Machinery Corp
Palace Packaging
Machines
Process Solutions
Remcon Plastics
Ronl
Ruland Engineering &
Consulting GmbH
Servolift
Shibuya Hoppmann
Corp

CONTAINER PRINTING EQUIPMENT

Auto-Mate
Technologies LLC
Control Micro Systems
EquipNet
IMA North America
Matthews Intl Corp,
Matthews Marking
Systems

CONTROL SYSTEMS, DISTRIBUTED

ABB, Process
Automation Div
Charles Ross & Son Co
Control 7
EquipNet
ETC, Sterilization
Systems
Eurotherm Brand,
Invensys Operations
Mgmt

Festo Corp
GEA Process
Engineering, GEA
Pharma Systems
ICONICS
Jenike & Johanson
Olsa USA
Rockwell Automation
Sensaphone
Siemens Process
Industries + Drives
SPEC Process
Engineering &
Construction
Spiroflow Systems
The Rovsys Co
WAGO Corp
Yokogawa Corp
of America

CONTROL SYSTEMS, MICROPROCESSOR-BASED

ABB, Process
Automation Div
Acron
Anorad,
Rockwell Automation
Automated Control
Concepts
AWS Bio-Pharma
Technologies
BinMaster,
Div Garner Industries
Charles Ross & Son Co
Control 7
Coperion K-Tron
Cosense
EquipNet
Eurotherm Brand,
Invensys Operations
Mgmt
Festo Corp
Gas Turbine
Efficiency LLC
GEA Process
Engineering, GEA
Pharma Systems
LT Industries
Mokon
Neutronics
Olsa USA
Omega Engineering
Rockwell Automation
Sensaphone
Siemens Process
Industries + Drives
SPEC Process
Engineering &
Construction
Spiroflow Systems
tec5usa
The Rovsys Co
Tri-Tronics Co
Vac-U-Max
WAGO Corp
Yokogawa Corp
of America

CONTROLLERS

ABB, Process
Automation Div
Anderson-Negele
Ashcroft
Coperion K-Tron
Durex Industries
EquipNet
Eurotherm Brand,
Invensys Operations
Mgmt
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GEMU Valves
Goulds Pumps,
ITT Corp
IFM Efector
Krohne
Mettler Toledo PCE,
Product Inspection
Mettler-Toledo
Hi-Speed, Product
Inspection
Mettler-Toledo Safeline,
Product Inspection

MKS Instruments
Olsa USA
Prior Scientific
Pulsafeeder /
Unit of IDEX Corp,
Engineered Pump
Operations
Rockwell Automation
Sensaphone
Siemens Process
Industries + Drives
Sierra Instruments
SPEC Process
Engineering &
Construction
Spiroflow Systems
Vac-U-Max
WAGO Corp
Walchem IWAKI
America
Yokogawa Corp
of America

CONVEYORS, BELT

APD Systems
Auto-Mate
Technologies LLC
Bausch Advanced
Technologies
Capmatic Ltd
Champion Trading Corp
Clear Automation
EAM
EquipNet
ERIEZ, HQ
Fenner Drives
FP Developments
Garvey Corp
Global Equipment,
Magnetics Div
Gough Econ
groninger USA L.L.C
IMA North America
Integrated Packaging
Systems
Interroll Corp
Jenike & Johanson
Kaps-All Packaging
Systems

CONVEYORS, DRY MATERIAL

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APD Systems
Blower Engineering
Champion Trading Corp
Dynamic Air
EquipNet
ERIEZ, HQ
Federal Equipment Co
Fenner Drives
Garvey Corp
GEA Process
Engineering, GEA
Pharma Systems
Gough Econ
ILC Dover
IMA North America
Interroll Corp
Jenike & Johanson
Kaps-All Packaging
Systems
Keith Machinery Corp
MECO Seal
Michael Benalt
Modular Packaging
Systems
Nedco Conveyor
Technologies
NJM Packaging
OK Sealer
Optima Machinery Corp
Prodo-Pak Corp
ProMach, Kleenline
ProMach, Shuttleworth
Sandvik Process
Systems LLC
Symetix
Vibra Screw
WIPOTEC-OCS
Zed Industries

CONVEYORS, CONVERGING AND DIVIDING

Auto-Mate
Technologies LLC
Clear Automation
EquipNet
ERIEZ, HQ
Federal Equipment Co
Fenner Drives

FP Developments
Garvey Corp
groninger USA L.L.C
HealthStar
IMA North America
Interroll Corp
Jenike & Johanson
Kaps-All Packaging
Systems
Keith Machinery Corp
MagneMotion
Michael Benalt
Modular Packaging
Systems
Nedco Conveyor
Technologies
New England Machinery
NJM Packaging
ProMach, Kleenline
ProMach, Shuttleworth
Seidenader
Maschinenbau GmbH
Spiroflow Systems
Symetix

CONVEYORS, DEAD PLATE TURNING

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Federal Equipment Co
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groninger USA L.L.C
Interroll Corp
Jenike & Johanson
Keith Machinery Corp
Michael Benalt
Nedco Conveyor
Technologies
New England Machinery
NJM Packaging

CONVEYORS, DRY MATERIAL

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Blower Engineering
Champion Trading Corp
Dynamic Air
EquipNet
ERIEZ, HQ
Federal Equipment Co
Fenner Drives
Garvey Corp
GEA Process
Engineering, GEA
Pharma Systems
Gough Econ
ILC Dover
IMA North America
Interroll Corp
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Kaps-All Packaging
Systems
Keith Machinery Corp
MECO Seal
Michael Benalt
Modular Packaging
Systems
Nedco Conveyor
Technologies
NJM Packaging
OK Sealer
Optima Machinery Corp
Prodo-Pak Corp
ProMach, Kleenline
ProMach, Shuttleworth
Sandvik Process
Systems LLC
Symetix
Vibra Screw
WIPOTEC-OCS
Zed Industries

CONVEYORS, ELEVATING

APD Systems
Clear Automation
EquipNet
Fenner Drives
Garvey Corp
Gough Econ

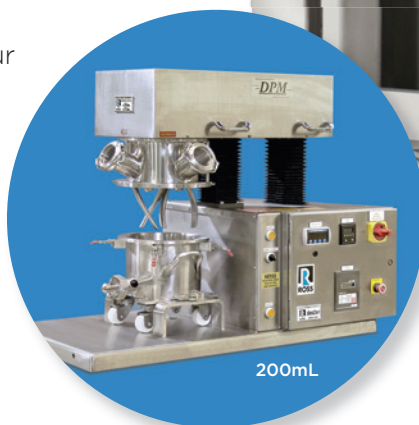
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MagneMotion
MECO Seal
Michael Benalt
Nedco Conveyor
Technologies
New England Machinery
NJM Packaging
Palace Packaging
Machines
ProMach, Shuttleworth
Seidenader
Maschinenbau GmbH
Spiroflow Systems
Symetix
Whirlwind Engineering

CONVEYORS, LIVE DISK TURNING

EquipNet
Federal Equipment Co
Fenner Drives
Garvey Corp
Interroll Corp
Jenike & Johanson
Kaps-All Packaging
Systems
Keith Machinery Corp
Nedco Conveyor
Technologies
Spiroflow Systems

CONVEYORS, PNEUMATIC

APD Systems
Blower Engineering
Bopp USA
Coperion K-Tron
De Dietrich Process
Systems
Dynamic Air
EquipNet
EXAIR Corp
Fenner Drives
GEA Process
Engineering, GEA
Pharma Systems
HealthStar
ILC Dover
Jenike & Johanson
Kaps-All Packaging
Systems
Keith Machinery Corp
Michael Benalt
Nilfisk, Industrial
Vacuum Div
Piab
ProMach, Shuttleworth
Spiroflow Systems
Symetix
The Young Industries
Vac-U-Max
Wm. W. Meyer & Sons
Zed Industries

CONVEYORS, SCREW

Acrison
APD Systems
Bausch Advanced
Technologies
Dynamic Air
EquipNet
Garvey Corp
groninger USA L.L.C
Interroll Corp
Jenike & Johanson
Keith Machinery Corp
MECO Seal
Michael Benalt
Spiroflow Systems
Vac-U-Max
Vibra Screw
Whirlwind Engineering

CONVEYORS, SPIRAL

APD Systems
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Federal Equipment Co
Garvey Corp
Interroll Corp
Jenike & Johanson
Keith Machinery Corp
Kraemer US LLC
MECO Seal
Nedco Conveyor
Technologies
Spiroflow Systems
Vibra Screw
Whirlwind Engineering

CONVEYORS, VACUUM

APD Systems
Bausch Advanced
Technologies
Blower Engineering
Dynamic Air
EquipNet
EXAIR Corp
Federal Equipment Co
GEA Process
Engineering, GEA
Pharma Systems
groninger USA L.L.C
ILC Dover
Interroll Corp
Jenike & Johanson
Keith Machinery Corp
Nilfisk, Industrial
Vacuum Div
Piab
Schenck Process
Spiroflow Systems
The Young Industries
Wm. W. Meyer & Sons
Zed Industries

COOLERS

API Heat Transfer,
Airtech, Basco,
Schmidt-Bretten Div
Bahnsen Environmental
Specialties,
An EMCOR Co
Bel-Art Products
BOC, A member of
The Linde Group
Carltext
EquipNet
EXAIR Corp
Federal Equipment Co
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
International Process
Plants IPP
Kason Corp
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COOLERS, WALK-IN

Bahnsen Environmental
Specialties,
An EMCOR Co
BOC, A member of
The Linde Group
EquipNet
Federal Equipment Co
Harris Environmental
Systems
TRS Containers

COOLING TUNNELS

BOC, A member of
The Linde Group
EquipNet
Federal Equipment Co

COUPLINGS, FLUID

CPC -
Colder Products Co
Powder-Solutions
Sierra Instruments

For vendor contact information, see Company Directory section.

CRUSHERS

Alexanderwerk
Arde Barinco,
Aerojet Rocketdyne
Bel-Art Products
EquipNet
Fluid Energy Processing
& Equipment
Franklin Miller
Glen Mills
International Process
Plants IPP
Keith Machinery Corp
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Nicos Group
S&G Enterprises
Safety Storage
Servolift
Sturtevant
The Young Industries
Verder Scientific,
North America

CUSTOM CONTAINERS

Charles Ross & Son Co
CMW Stainless
Cold Chain
Technologies
Custom Powder
Systems. The
Containment Co
METO Corp
TRS Containers
WRH Industries Ltd

DATA-ACQUISITION SYSTEMS

ABEC
AccuTime Systems
Acrison
Artel
Charles Ross & Son Co
Data Translation
Eurotherm Brand,
Invensys Operations
Mgmt
GE Sensing & Inspection
Technologies
GEA Process
Engineering, GEA
Pharma Systems
Getinge USA,
Life Science
groninger USA L.L.C
Honeywell, Industrial
Measurement &
Controls Div
ICONICS
Kaps-All Packaging
Systems
KORSCH America
Mettler Toledo PCE,
Product Inspection
Mettler-Toledo
Hi-Speed, Product
Inspection
Mettler-Toledo Safeline,
Product Inspection
MKS Instruments
Omega Engineering
Process Tek
Rockwell Automation
Sensaphone
Sensitech
Siemens Process
Industries + Drives
SMI
SPEC Process
Engineering &
Construction
TAL Technologies
Testo
The Rovisys Co
TMI USA
WAGO Corp
Walchem IWAKI
America
Waters Corp, Waters Div
Yokogawa Corp
of America

DEAERATORS

API Heat Transfer,
Airtech, Basco,
Schmidt-Bretten Div
Arde Barinco,
Aerojet Rocketdyne
Artisan Industries
Charles Ross & Son Co
Distek
EKATO Corp
GEA Process
Engineering, GEA
Pharma Systems
Jaygo
Membrana
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Schutte & Koerting
Spiroflow Systems
Werner Mathis USA,
North America

DEBLISTERERS

Sepha Ltd

DEHUMIDIFIERS

Bahnsen Environmental
Specialties,
An EMCOR Co
Keith Machinery Corp
Membrana
Munters Corp
WA Hammond Drierite
Co Ltd

DENSITY INSTRUMENTATION, GASES, LIQUIDS, SOLIDS

Anton PAAR USA
Automation Products,
Dynamatrol®
BioPro Intl
Krohne
Micromeritics
Instrument Corp
Quantachrome
Instruments
Texture Technologies
Corp
Uehling Instrument Co
Yokogawa Corp
of America

DEPYROGENATION SYSTEMS

AWS Bio-Pharma
Technologies
Bausch Advanced
Technologies
Despatch - ITW EAE,
Div of Illinois
Tool Works
ESCO Technologies,
Esco Pharma Factory
groninger USA L.L.C
HealthStar
Nicos Group
Optima Machinery Corp
Pall Life Sciences,
Biopharmaceuticals
**Robert Bosch Packaging
Technology,
Pharmaceutical
Operations**
Romaco North
American
Shibuya Hoppmann
Corp

DESICCANT FEEDERS

Capmatic Ltd
IMA North America
Kaps-All Packaging
Systems
Key Intl
Modular Packaging
Systems
Multisorb Technologies
New England Machinery

NJM Packaging
Omega Design Corp
Palace Packaging
Machines

DESICCATOR CABINETS AND TOTE BOXES

Bel-Art Products
WA Hammond Drierite
Co Ltd

DETECTORS, METAL

Capmatic Ltd
Detectable Materials
ERIEZ, HQ
Frieze Technology
Global Equipment,
Magnetics Div
Keith Machinery Corp
Key Intl
Kraemer US LLC
Lock Inspection
Systems
Loma Systems,
an ITW Co
Magnetics Div, Global
Equipment Mktg
Mettler-Toledo
Hi-Speed, Product
Inspection
Mettler-Toledo Safeline,
Product Inspection
Rockwell Automation
Rubber Fab
WIPOTEC-OCS

DETERGENTS

Alconox
Bel-Art Products
Chemtura Corp
Decon Labs
Dycem
International Products
Corp
Veltek Assocs

DETERGENTS, GERMICIDAL

Decon Labs
Veltek Assocs

DIAFILTRATION (DESALTING) EQUIPMENT

EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
GEA Process
Engineering, GEA
Pharma Systems
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals

DIGITAL INDICATORS, ELECTRONIC

Anderson-Negele
Ashcroft
ATAGO USA
Atlantic Scale Co
Eurotherm Brand,
Invensys Operations
Mgmt
First Sensor
FSI Technologies
GE Sensing & Inspection
Technologies
Mecmesin Corp
Mettler Toledo PCE,
Product Inspection
Mettler-Toledo
Hi-Speed, Product
Inspection
Mettler-Toledo Safeline,
Product Inspection
Omega Engineering
Palmer Wahl
Temperature Products

Two Dimensional
Instruments
Yokogawa Corp
of America

DIGITAL METERS

Anton PAAR USA
Ashcroft
ATAGO USA
Automation Products,
Dynamatrol®
Beamex
Eurotherm Brand,
Invensys Operations
Mgmt
GMP Systems
Kaps-All Packaging
Systems
Krohne
Mecmesin Corp
Omega Engineering
Palmer Wahl
Temperature Products
Spectronics Corp
Testo
Two Dimensional
Instruments
Yokogawa Corp
of America

DISINFECTANTS

Aquionics
Clordisys Solutions
Contec
Decon Labs
Dycem
Edgco
Lancer USA
Mycoscience
Thomas Scientific
Veltek Assocs

DISINFECTANTS, AEROSOL

Edgco
Process Tek
Veltek Assocs

DISPENSERS, LIQUID AND POWDER

Bausch Advanced
Technologies
Blue Thunder
Technologies
Cozzoli Machine Co
Edgco
Filamatic, National
Instrument LLC
Fluid Metering
ILC Dover
IMA North America
Indco
IVEK Corp
Kaps-All Packaging
Systems
Keith Machinery Corp
Oyster Bay Pump Works
Veltek Assocs
Westfield Sheet
Metal Works

DISSOLVERS, SUGAR

Arde Barinco,
Aerojet Rocketdyne
Draiswerke
GEA Process
Engineering, GEA
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(CTP Corp)
Honeyman Group Ltd
JLS Intl
Wintek Corp

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3V TECH USA
Advanced Synthesis,
Chemical Div
Artisan Industries
Buchiglas USA
Chemical Transfer
Partnership Corp,
(CTP Corp)
De Dietrich Process
Systems
Federal Equipment Co
GEA Process
Engineering, GEA
Pharma Systems
General Lab &
Cleanroom Supply
ILC Dover
JLS Intl
Milestone
Myers Vacuum
Repair Services
NexGen Enviro Systems
Olsa USA
Perry Videx LLC
Pfaudler
The ChemPro Group
Wintek Corp

DOLLIES

Hurst Corp
Liftomatic Material
Handling
MO Industries
Molded Fiber Glass
Tray Co
Morse Mfg Co
Servolift

DOOR SYSTEMS (DOORS, FRAMES, HARDWARE, SEALS)

AirLec Industries
Erich Industries
G-M-I
Nergeco Entrematic,
Entrematic HPD
Nicos Group
SG Magee Co

DRUM LIFTING EQUIPMENT

APD Systems
Champion Trading Corp
Custom Powder
Systems. The
Containment Co
Edgeco
EHS Solutions LLC
Excalibur Miretti
Group LLC
GEMCO
Integrated Containment
Systems
Interthor
Liftomatic Material
Handling
METO Corp
MO Industries
Morse Mfg Co
Nicos Group
Process Solutions
Ronl
Servolift
Spiroflow Systems
UniTech Industries
Vac-U-Max

DRUM WASHING MACHINES

Custom Powder
Systems. The
Containment Co
Gamajet Cleaning
Systems
Girton Mfg Co,
Pharmaceutical Div
Lancer USA
MO Industries
Nicos Group
Servolift
Werner Mathis USA,
North America

DRUMS (SEE ALSO PACKAGING EQUIPMENT AND MATERIALS SECTION)

LB Bohle LLC
METO Corp
MO Industries
Nicos Group
Process Solutions
Remcon Plastics
Servolift
Snyder Industries
TricorBraun

DRY ROOMS

Bahnsen Environmental
Specialties,
An EMCOR Co

DRYERS (SEE ALSO LABORATORY EQUIPMENT AND SUPPLIES SECTION)

3V TECH USA
Air Science USA LLC
B&P Littleford
BHS-Filtration
Buhler Aeroglide
Champion Trading Corp
Charles Ross & Son Co
Cletral
Crown Iron Works Co,
Specialty Extraction
Custom Heat LLC
De Dietrich Process
Systems
Despatch - ITW EAE,
Div of Illinois
Tool Works
Draiswerke
Evaporator Dryer
Technologies
Federal Equipment Co
Fluid Air, Spraying
Systems Co
Fluid Energy Processing
& Equipment
Freund-Vector Corp
GEA Process
Engineering, GEA
Pharma Systems
GEMCO
Girton Mfg Co,
Pharmaceutical Div
Globe Scientific
Hosokawa Micron
Powder Systems
International Process
Plants IPP
Jaygo
JLS Intl
Komline-Sanderson
Lancer USA
Marion Process
Solutions
McGill AirPressure LLC
Olsa USA
ProCepT
Steri Technologies
TPS
WA Hammond Drierite
Co Ltd
Werner Mathis USA,
North America

DRYERS, AIR

BETE Fog Nozzle
BlackstoneNEY
Ultrasonics
Buhler Aeroglide
Coperion K-Tron
Custom Heat LLC
Despatch - ITW EAE,
Div of Illinois
Tool Works
Dynamic Air
Evaporator Dryer
Technologies
EXAIR Corp
Hosokawa Micron
Powder Systems
Ingersoll-Rand,
Compressed Air
Solutions
JLS Intl
Optima Machinery Corp
Parker Hannifin
Pink GmbH
Thermosysteme
RJM Sales
WA Hammond Drierite
Co Ltd
Werner Mathis USA,
North America
Wyssmont Co

DRYERS, CENTRIFUGAL

3V TECH USA
GEA Process
Engineering, GEA
Pharma Systems
Hosokawa Micron
Powder Systems
International Process
Plants IPP
KINESPIN Div of
Kinefac Corp
Kyte Centrifuge Sales &
Consulting
Olsa USA
Robatel

DRYERS, CONTINUOUS

Artisan Industries
B&P Littleford
BHS-Filtration
Buhler Aeroglide
Crown Iron Works Co,
Specialty Extraction
Systems
De Dietrich Process
Systems
Despatch - ITW EAE,
Div of Illinois
Tool Works
Draiswerke
Dynamic Air
Federal Equipment Co
Fluid Energy Processing
& Equipment
GEA Process
Engineering, GEA
Pharma Systems
Hosokawa Micron
Powder Systems
International Process
Plants IPP
JLS Intl
Komline-Sanderson
LB Bohle LLC
Olsa USA
Perry Videx LLC
SPX Flow, Anhydro
Steri Technologies
Werner Mathis USA,
North America
Wyssmont Co

DRYERS, DRUM

B&P Littleford
Buhler Aeroglide
Champion Trading Corp
Custom Heat LLC
Draiswerke
GEMCO
Girton Mfg Co,
Pharmaceutical Div

Hosokawa Micron
Powder Systems
International Process
Plants IPP
JLS Intl
MECO Seal
WA Hammond Drierite
Co Ltd
Werner Mathis USA,
North America

DRYERS, FLASH

Artisan Industries
Crown Iron Works Co,
Specialty Extraction
Evaporator Dryer
Technologies
Fluid Energy Processing
& Equipment
Hosokawa Micron
Powder Systems
International Process
Plants IPP
Jaygo
SPX Flow, Anhydro
SPX Flow
The ChemPro Group

DRYERS, FLUID-BED

AC Compacting LLC
B&P Littleford
Bopp USA
Buhler Aeroglide
Capital Resin Corp
Champion Trading Corp
Charles Ross & Son Co
Crown Iron Works Co,
Specialty Extraction
Daiichi Jitsugyo
(America),
Pharmaceutical Div
Draiswerke
Dynamic Air
Evaporator Dryer
Technologies
Federal Equipment Co
Fluid Air, Spraying
Systems Co
Freund-Vector Corp
GEA Process
Engineering, GEA
Pharma Systems
Glatt Air Techniques
Glen Mills
HealthStar
Hosokawa Micron
Powder Systems
IMA North America
International Process
Plants IPP
Kason Corp
Kavon Filter Products Co
Key Intl
LB Bohle LLC
MECO Seal
Mendel Co
Nicos Group
ProCepT
Romaco North
American
Servolift
SP Scientific - HULL/
VIRTIS/FTS
SPX Flow, Anhydro
SPX Flow
Verder Scientific,
North America

DRYERS, TRAYS FOR SOFT GELATIN CAPSULES

Buhler Aeroglide
Daiichi Jitsugyo
(America),
Pharmaceutical Div
International Process
Plants IPP
JLS Intl
Molded Fiber Glass
Tray Co
Olsa USA
Pink GmbH
Thermosysteme
WRH Industries Ltd
Wyssmont Co

DRYERS, PADDLE

3V TECH USA
B&P Littleford
Charles Ross & Son Co
Chem Flowtronics
COMBER Process
Technology S.r.l.
Crown Iron Works Co,
Specialty Extraction
Draiswerke
Dynamic Air
Federal Equipment Co
GEA Process
Engineering, GEA
Pharma Systems

GEMCO
Heinkel
Hosokawa Micron
Powder Systems
International Process
Plants IPP
Jaygo
Jongia USA
Keith Machinery Corp
Komline-Sanderson
Marion Process
Solutions
Olsa USA
Perry Videx LLC

DRYERS, ROTATING TRAY

3V TECH USA
Advanced Synthesis,
Chemical Div
Chem Flowtronics
Federal Equipment Co
GEMCO
HealthStar
Heinkel
International Process
Plants IPP
Keith Machinery Corp
MECO Seal
Perry Videx LLC
Pink GmbH
Thermosysteme
Wyssmont Co

DRYERS, SELF-CLEANING

Chem Flowtronics
Crown Iron Works Co,
Specialty Extraction
Federal Equipment Co
Hosokawa Micron
Powder Systems
Jaygo
Komline-Sanderson
Nicos Group

DRYERS, SPRAY

AC Compacting LLC
BETE Fog Nozzle
BUCHI Corp
Buhler Aeroglide
Evaporator Dryer
Technologies
Federal Equipment Co
Fluid Air, Spraying
Systems Co
International Process
Plants IPP
Komline-Sanderson
Mendel Co
Perry Videx LLC
ProCepT
SPX Flow, Anhydro
SPX Flow

DRYERS, TRAYS FOR SOFT GELATIN CAPSULES

Buhler Aeroglide
Daiichi Jitsugyo
(America),
Pharmaceutical Div
International Process
Plants IPP
JLS Intl
Molded Fiber Glass
Tray Co
Olsa USA
Pink GmbH
Thermosysteme
WRH Industries Ltd
Wyssmont Co

DRYERS, TRUCK, SHELF AND VACUUM

Buhler Aeroglide
F.P.S. Food and Pharma
Systems srl
GEMCO
International Process
Plants IPP
Jaygo

JLS Intl
Jongia USA
McGill AirPressure LLC
Olsa USA
Pink GmbH
Thermosysteme
Steri Technologies
WA Hammond Drierite
Co Ltd

DRYERS, VACUUM AGITATION

B&P Littleford
Charles Ross & Son Co
Chem Flowtronics
COMBER Process
Technology S.r.l.
De Dietrich Process
Systems
Draiswerke
EKATO Corp
GEMCO
HealthStar
Heinkel
Hosokawa Micron
Powder Systems
International Process
Plants IPP
Jaygo
JLS Intl
Jongia USA
Komline-Sanderson
Marion Process
Solutions
McGill AirPressure LLC
Olsa USA
Pink GmbH
Thermosysteme
ProCepT
Servolift

DRYERS, VACUUM TUMBLE

3V TECH USA
Advanced Synthesis,
Chemical Div
B&P Littleford
Charles Ross & Son Co
Chem Flowtronics
De Dietrich Process
Systems
GEA Process
Engineering, GEA
Pharma Systems
GEMCO
International Process
Plants IPP
Jaygo
McGill AirPressure LLC
Olsa USA
Patterson Kelley
Perry Videx LLC
Pfaudler

DRYERS, VACUUM VIBRATION

Chem Flowtronics
GEMCO
Hosokawa Micron
Powder Systems
Komline-Sanderson
McGill AirPressure LLC
Olsa USA

DUCTING

A&B Process Systems,
JBT Corp
Nordfab Ducting

DUST COLLECTION DUCTING

HEMCO Corp
Nordfab Ducting
Schenck Process

ELECTRICAL EQUIPMENT, GENERATORS

Reimers Electra Steam

ELECTRICAL EQUIPMENT, MOTORS AND CONTROLS

Control 7
Cosense
Custom Heat LLC
Festo Corp
FSI Technologies
Glas-Col LLC
Haydon Kerk Motion Solutions
IFM Efcator
Olsa USA
Omega Engineering
Rockwell Automation
Siemens Process Industries + Drives
WAGO Corp

ELECTRONIC TEST EQUIPMENT

Automation Products, Dynatrol®
Beamex
GMP Systems
Kaps-All Packaging Systems
LT Industries
Mecmesin Corp
moisttech
Palmer Wahl
Temperature Products
Q-Lab Corp
Seidenader
Maschinenbau GmbH
Testing Machines
WAGO Corp
Yokogawa Corp of America

EMISSIONS CONTROL

Anguil Environmental Systems
BinMaster,
Div Garner Industries
CECO Environmental
E Instruments Intl
Goyen Valve LLC,
Pentair Environmental Systems
Isolation Systems
Neutronics
Praxair

ENERGY RECOVERY SYSTEMS

ADI Systems,
An Evoqua Brand
Anguil Environmental Systems
GEA Process
Engineering, GEA
Pharma Systems
Munters Corp
The ChemPro Group

EQUIPMENT COVERS

Bel-Art Products
GMP Systems
TRAX Industrial
Curtains

EQUIPMENT INSTALLATION

APD Systems
AWS Bio-Pharma Technologies
BIOQUELL,
Life Sciences
Custom Powder Systems. The
Containment Co
Evaporator Dryer Technologies
Fluid Air, Spraying Systems Co
FP Developments
IMA North America
Isolation Systems

Jenike & Johanson
Magnatech LLC
Qualicaps
Robert Bosch Packaging Technology,
Pharmaceutical Operations
Ruland Engineering & Consulting GmbH

ESD MONITORING AND DETECTION SYSTEMS

ABB, Process
Automation Div
Blue Thunder Technologies
EXAIR Corp
General Lab & Cleanroom Supply
Isolation Systems
Meech Static Eliminators USA
Mettler Toledo PCE,
Product Inspection
Mettler-Toledo Safeline,
Product Inspection
PlugIn Storage
Systems - PSSI
Simco-Ion, Illinois Tool Works Co

EVAPORATORS, TUBULAR

3V TECH USA
API Heat Transfer,
Airtech, Basco,
Schmidt-Bretten Div
BUCHI Corp
Evaporator Dryer Technologies
Feldmeier Equipment
GEA Process
Engineering, GEA
Pharma Systems
International Process
Plants IPP
Perry Videx LLC
SPX Flow, Anhydro

EVAPORATORS, WIPE-FILM

3V TECH USA
Advanced Synthesis,
Chemical Div
Alfa Laval Tank
Equipment
Artisan Industries
Chemical Transfer
Partnership Corp,
(CTP Corp)
De Dietrich Process
Systems
Evaporator Dryer
Technologies
Federal Equipment Co
GEA Process
Engineering, GEA
Pharma Systems
International Process
Plants IPP
JLS Intl
Myers Vacuum
Repair Services
Perry Videx LLC
Pfaudler
SPX Flow, Anhydro

EXPLOSION PROTECTION EQUIPMENT

EHS Solutions LLC
Evaporator Dryer
Technologies
GEA Process
Engineering, GEA
Pharma Systems
ILC Dover
Isolation Systems
Neutronics
Newson Gale
Oseco

EXTRACTION, SUPER-CRITICAL FLUID

Crown Iron Works Co,
Specialty Extraction
International Process
Plants IPP
Robatel

EXTRACTORS

B&P Littleford
BUCHI Corp
Crown Iron Works Co,
Specialty Extraction
GEA Process
Engineering, GEA
Pharma Systems
Gilson Co
International Process
Plants IPP
Isolation Systems

KINESPIN Div of
Kinefac Corp
Kyte Centrifuge Sales & Consulting
Milestone
Robatel
Steri Technologies
The ChemPro Group
Western States
Machine Co

EXTRUDERS

AC Compacting LLC
Charles Ross & Son Co
Cletral
Contract Pharmaceutical Corp
CW Brabender
Instruments
International Process
Plants IPP
Jaygo

Kason Corp
KNF Corp
LB Bohle LLC
Leitz Extrusion,
Extrusion
MECO Seal
Mendel Co
Oseco
Perry Videx LLC
ProCePT
Readco Kurimoto LLC
Sigma Equipment Corp

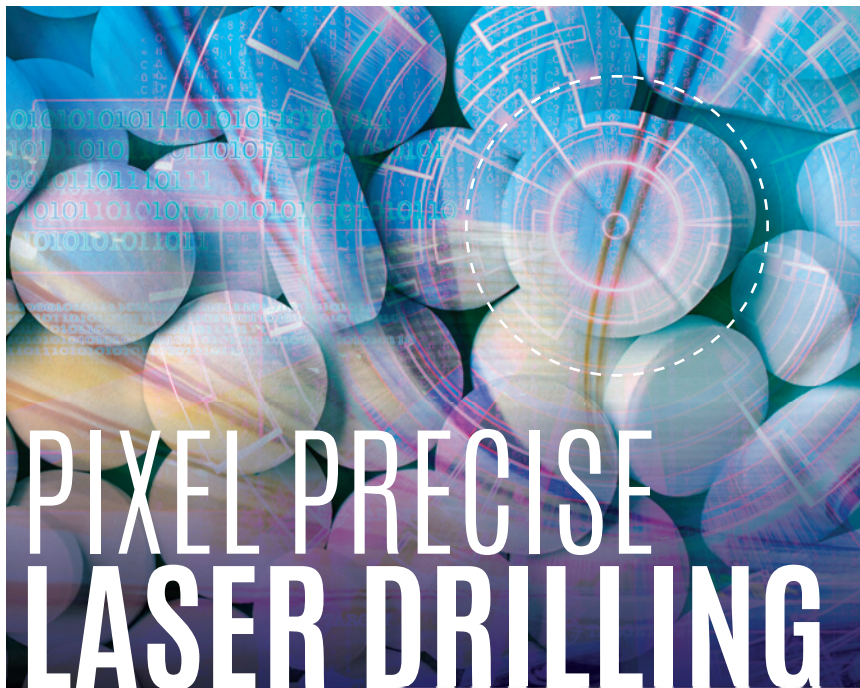
EXTRUDERS, HOT MELT

AC Compacting LLC
Charles Ross & Son Co
CW Brabender
Instruments
Freund-Vector Corp
Jaygo

Leitz Extrusion,
Extrusion
MECO Seal
ProCePT

FABRICATIONS, SPECIAL

Allegheny Bradford Corp, Corporate
Artisan Industries
Bel-Art Products
Charles Ross & Son Co
Contract Pharamcal Corp
Custom Powder Systems. The
Containment Co
Feldmeier Equipment
Garvey Corp
GMP Systems
Integrated Containment Systems



For Single Layer, Bi-Layer and LCT Tablets

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- Patented tablet-by-tablet acceptance delivers only the properly drilled products
- Quick product changes and fast production rates
- Ideal for R&D and production



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JLS Intl
Mendel Co
Olsa USA
Process Solutions
Ryan Specialty Valve
Products LLC
Top Line Process
Equipment Co
Zed Industries

FACILITY MONITORING SYSTEMS

Festo Corp
GE Sensing & Inspection
Technologies
Goyen Valve LLC,
Pentair Environmental
Systems
ICONICS
Mesa Labs
Mil-Ram Technology
Veltek Assocs

FEEDERS, CENTRIFUGAL

Jenike & Johanson
Ryan Specialty Valve
Products LLC

FEEDERS, GRAVIMETRIC

Dynamic Air
Jenike & Johanson
Schenck Process

FEEDERS, VIBRATORY

Batching Systems
Capmatic Ltd
Dynamic Air
ERIEZ, HQ
Gough Econ
Hosokawa Micron
Powder Systems
Jenike & Johanson
Schenck Process
Symetix
Verder Scientific,
North America

FEEDERS, VOLUMETRIC

Batching Systems
Dynamic Air
ERIEZ, HQ
Jenike & Johanson
Schenck Process
Wm. W. Meyer & Sons
Wyssmont Co

FEEDERS, WEIGH

Batching Systems
Custom Powder
Systems. The
Containment Co
Dynamic Air
Jenike & Johanson
Schenck Process

FERMENTATION EQUIPMENT

Bioengineering
Bioengineering AG
Chem Flowtronics
DCI-Biolafitte
Eppendorf
Praxair
Sartorius Stedim
North America

FERMENTATION SEPARATION/ PURIFICATION SYSTEMS

Bioengineering
Kyte Centrifuge Sales &
Consulting

FILLING MACHINE FILTERS

Atmos-Tech Industries
Domnick microBAN
GMP Systems
Pall Life Sciences,
Biopharmaceuticals
Rubber Fab
Unibloc-Pump,
Flowtech Div

FILTER CARTRIDGES

3M Co, 3M Separation
and Purification
Sciences
Air Science USA LLC
Aries FilterWorks,
Div ResinTech
Atmos-Tech Industries
Bergen Industrial
Supply Co
Bopp USA
Buffalo Filter
Domnick microBAN
ErtelAlsop
Flanders Corp,
Containment Products
GMP Systems
HEMCO Corp
Imperial Systems
JLS Intl
Medro Systems
Menardi
Mott Corp
Mycoscience
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Parker Hannifin
Plymovent NA
Powder-Solutions
RJM Sales
Sartorius Stedim
North America
Schenck Process
Sefar

FILTER HOUSING AND HARDWARE

3M Co, 3M Separation
and Purification
Sciences
Allegheny Bradford
Corp, Corporate
Aries FilterWorks,
Div ResinTech
Atmos-Tech Industries
BHS-Filtration
BioDesign of New York
Buffalo Filter
Domnick microBAN
ErtelAlsop
Flanders Corp,
Containment Products
HEMCO Corp
Imperial Systems
JLS Intl
MKS Instruments
MultiTherm LLC
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Parker Hannifin
Plymovent NA
RJM Sales
Sartorius Stedim
North America
Steadfast Equipment

FILTER MEDIA

3V TECH USA
Atmos-Tech Industries
Avery Filter Co
Bopp USA
HEMCO Corp
Imerys, Filtration
Jaygo
Kavon Filter Products Co
Komline-Sanderson
Powder-Solutions

For vendor contact information, see Company Directory section.

Sartorius Stedim
North America
Schenck Process
Sefar

FILTER PLATES

3V TECH USA
Avery Filter Co
Bopp USA
Jaygo
Phenomenex

FILTER PRECOATS

Komline-Sanderson

FILTER PRESSES

Avery Filter Co
Komline-Sanderson
Yamada America

FILTER TESTING

3V TECH USA
Atmos-Tech Industries
GMP Systems
Komline-Sanderson
Sartorius Stedim
North America

FILTER UNITS, FABRICATED

Buchiglas USA
Chem Flowtronics
CleanZones LLC
GMP Systems
HEMCO Corp
Kavon Filter Products Co
Komline-Sanderson
Sefar
Vac-U-Max

FILTERS, AGITATED

3V TECH USA
Chem Flowtronics
COMBER Process
Technology S.r.l.
GMP Systems
Heinkel
Jaygo
Jongia USA
Komline-Sanderson
ProCepT
Steri Technologies

FILTERS, CAKE WASHING

3V TECH USA
Avery Filter Co
Bopp USA
GMP Systems
Jaygo
Jongia USA
Kavon Filter Products Co
Komline-Sanderson
Sefar
Steri Technologies

FILTERS, COMPRESSED-AIR Vac-U-Max

FILTERS, CONTINUOUS

GMP Systems
Komline-Sanderson
Vac-U-Max

FILTERS, DISPOSABLE

Custom Powder
Systems. The
Containment Co
GMP Systems
Kavon Filter Products Co
Sartorius Stedim
North America

FILTERS, GLASS

3V TECH USA
Buchiglas USA
Chem Flowtronics
GMP Systems
Phenomenex

FILTERS, HOLLOW-FIBER GMP Systems

FILTERS, MAGNETIC

Bopp USA
ERIEZ, HQ
Global Equipment,
Magnetics Div
GMP Systems
Magnetics Div, Global
Equipment Mktg
Powder-Solutions

FILTERS, MEMBRANE

ABEC Filtration Systems
Asahi Kasei Chemical
Corp/Asahi Kasei
America, Functional
Additives Div
Avestin
Burkert Fluid Control
Systems
GMP Systems
Medro Systems
Sartorius Stedim
North America

FILTERS, MICROFILTRATION

Avestin
Bopp USA
GMP Systems

FILTERS, NUTSCHE

3V TECH USA
Bopp USA
Chem Flowtronics
Chemical Transfer
Partnership Corp,
(CTP Corp)
COMBER Process
Technology S.r.l.
Heinkel
Jaygo
Jongia USA
Kavon Filter Products Co
Pfaudler
ProCepT
Sefar
Steri Technologies

FILTERS, NYLON 66

Kavon Filter Products Co
Phenomenex
Sefar

FILTERS, PAPER

Avery Filter Co
Gilson Co
Sartorius Stedim
North America

FILTERS, POLYPROPYLENE (GAS AND LIQUID)

GMP Systems
Kavon Filter Products Co
Phenomenex
Sartorius Stedim
North America
Sefar

FILTERS, PRESSURE

3V TECH USA
Avery Filter Co
Bopp USA
Buchiglas USA
COMBER Process
Technology S.r.l.
GMP Systems
Heinkel

Jaygo
Kavon Filter Products Co
Steri Technologies

FILTERS, PTFE (AIR AND LIQUID)

Bopp USA
Chem Flowtronics
GMP Systems
Kavon Filter Products Co
Phenomenex
Sartorius Stedim
North America
Sefar
Vac-U-Max

FILTERS, REVERSE-OSMOSIS

GMP Systems
Kavon Filter Products Co
Medro Systems
Vac-U-Max

FILTERS, ROTARY DRUM

3V TECH USA
Avery Filter Co
Bopp USA
GMP Systems
Kavon Filter Products Co
Komline-Sanderson
Nash, by Gardner
Denver
Sefar

FILTERS, SELF-CLEANING

3M Co, 3M Separation
and Purification
Sciences
Anguil Environmental
Systems
GMP Systems
International Process
Plants IPP
JLS Intl
Kyte Centrifuge Sales &
Consulting
Menardi
Plymovent NA
Russell Finex
Steadfast Equipment
Steri Technologies
Vac-U-Max

FILTERS, STEAM

3M Co, 3M Separation
and Purification
Sciences
Domnick microBAN
G-M-I
GMP Systems
International Process
Plants IPP
Kavon Filter Products Co
Mott Corp
Nicholson Steam Trap,
Div Circor Intl
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Process Tek
Spirax Sarco

FILTERS, TANGENTIAL-FLOW

Bopp USA
GEA Process
Engineering, GEA
Pharma Systems
International Process
Plants IPP
Microdyn Technologies
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals

FILTERS, ULTRAFILTRATION

Aries FilterWorks,
Div ResinTech
BioDesign of New York
Bopp USA
Buffalo Filter
EquipNet
Flanders Corp,
Containment Products
G-M-I
GEA Process
Engineering, GEA
Pharma Systems
General Lab &
Cleanroom Supply
GMP Systems
International Process
Plants IPP
JLS Intl
Kavon Filter Products Co
LM Air Technology,
Cleanroom & Lab
Equipment
Microdyn Technologies
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Rees Scientific
Sartorius Stedim
North America

FILTERS, VACUUM

3V TECH USA
BHS-Filtration
Blower Engineering
Bopp USA
Buchiglas USA
Buffalo Filter
Coperion K-Tron
De Dietrich Process
Systems
Federal Equipment Co
G-M-I
GMP Systems
International Process
Plants IPP
JLS Intl
Jongia USA
Kavon Filter Products Co
Komline-Sanderson
Menardi
Nilfisk, Industrial
Vacuum Div
Olsa USA
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Piab
Sefar
Steadfast Equipment
The Young Industries
Vac-U-Max

FILTERS, VIRUS REMOVAL

3M Co, 3M Separation
and Purification
Sciences
Buffalo Filter
Domnick microBAN
ErtelAlsop
Flanders Corp,
Containment Products
GEA Process
Engineering, GEA
Pharma Systems
GMP Systems
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Sartorius Stedim
North America

FITTINGS, CLAMP

AdvantaPure
Alfa Laval Tank
Equipment
ARCHON Industries
Bel-Art Products

Bergen Industrial Supply Co
BioFab LLC
De Dietrich Process Systems
Eagle Stainless Container GMP Systems
Jaygo
LJ Star
MKS Instruments
Oetiker
Palmer Wahl
Temperature Products
Powder-Solutions
QualiTru Sampling Systems
Rubber Fab
Ryan Specialty Valve Products LLC
Top Line Process Equipment Co
VNE Corp

FITTINGS, PTFE (TUBE-TYPE)

AdvantaPure
Asahi/America
Bel-Art Products
Bergen Industrial Supply Co
BioChem Fluidics
Chem Flowtronics
CPC -
Colder Products Co
Palmer Wahl
Temperature Products
Rubber Fab
Ryan Herco Flow Solutions
Top Line Process Equipment Co
VNE Corp
Zinsser NA

FITTINGS, QUICK DISCONNECT

Chem Flowtronics
CPC -
Colder Products Co
Powder-Solutions
Top Line Process Equipment Co

FITTINGS, QUICK-CONNECT

AdvantaPure
ARCHON Industries
Asahi/America
Bel-Art Products
Bergen Industrial Supply Co
Beswick Engineering Co
BioFab LLC
Chem Flowtronics
Conax Technologies
CPC -
Colder Products Co
Detectable Materials
Festo Corp
GMP Systems
MKS Instruments
Oetiker
Palmer Wahl
Temperature Products
Powder-Solutions
Rubber Fab
Ryan Specialty Valve Products LLC
The Young Industries
Top Line Process Equipment Co

FITTINGS, SANITARY BEVEL-SEAT

AdvantaPure
Bergen Industrial Supply Co
BioFab LLC
Chem Flowtronics
GMP Systems
Palmer Wahl
Temperature Products

QualiTru Sampling Systems
Rubber Fab
Ryan Specialty Valve Products LLC
Top Line Process Equipment Co
TW Metals
VNE Corp

FITTINGS, SANITARY BUTT-WELD

AdvantaPure
Alfa Laval Tank Equipment
Asahi/America
Bergen Industrial Supply Co
BioFab LLC
Chem Flowtronics
Conax Technologies
CPC -
Colder Products Co
Eagle Stainless Container
GMP Systems
Liburdi Dimetrics Corp
Palmer Wahl
Temperature Products
QualiTru Sampling Systems
Rubber Fab
Ryan Specialty Valve Products LLC
Sentinel Process Systems
The Young Industries
Top Line Process Equipment Co
TW Metals
VNE Corp

FITTINGS, SANITARY BUTT-WELD, AUTOMATIC

Bergen Industrial Supply Co
BioFab LLC
Chem Flowtronics
GMP Systems
Liburdi Dimetrics Corp
Rubber Fab
Ryan Specialty Valve Products LLC
Sentinel Process Systems
Top Line Process Equipment Co
TW Metals
VNE Corp

FITTINGS, TANKER (AND ACCESSORIES)

Brookfield AMETEK
GMP Systems
MKS Instruments

FITTINGS, TUBE OD BUTT-WELD

CPC -
Colder Products Co
CPV Mfg
GMP Systems
MKS Instruments
QualiTru Sampling Systems
Ryan Specialty Valve Products LLC
Top Line Process Equipment Co

FLEXIBLE CONTAINMENT SYSTEMS

CPV Mfg
Custom Powder Systems. The Containment Co
ESCO Technologies, Esco Pharma Factory
ILC Dover
Key Intl
Powder-Solutions

FLOOR DRAINS

Yamada America

FLOW MEASUREMENT INSTRUMENTATION

Anderson-Negele
Ashcroft
ATS RheoSystems, Cannon Instrument Co
BinMaster, Div Garner Industries
Burkert Fluid Control Systems
Charles River, Microbial Solutions
Chemical Transfer Partnership Corp, (CTP Corp)
First Sensor
GEMU Valves
GMP Systems
Greyline Instruments
Hoffer Flow Controls
MISCO Refractometer
MKS Instruments
Sensaphone
Sierra Instruments

FLOW TRANSMITTERS

Anderson-Negele
GMP Systems
Greyline Instruments
Hoffer Flow Controls
MKS Instruments
Sensaphone
Sierra Instruments

FLUID-BED EQUIPMENT

AC Compacting LLC
Coating Place
Contract Pharmacal Corp
Daiichi Jitsugyo (America), Pharmaceutical Div
Draiswerke
Evaporator Dryer Technologies
Fluid Air, Spraying Systems Co
Freund-Vector Corp
GEA Process Engineering, GEA Pharma Systems
Glatt Air Techniques
HealthStar
IMA North America
International Process Plants IPP
Kason Corp
LB Bohle LLC
Mendel Co
Nicos Group
Olsa USA
ProCepT
Process Solutions
Servolift

FLUORESCENT LAMPS, SHATTERPROOF

GMP Systems

FREEZERS

Bahnson Environmental Specialties, An EMCOR Co
BOC, A member of The Linde Group
Chem Flowtronics
Harris Environmental Systems
Parameter Generation & Control
Powers Scientific
SG Magee Co
So-Low Environmental Equipment Co
Vindonwestech

GASK SEPARATION MEMBRANES

JLS Intl
Membrana
Parker Hannifin
Praxair
RJM Sales

GASKET MATERIAL

Bergen Industrial Supply Co
Custom Powder Systems. The Containment Co
Detectable Materials
G-M-I
Pawling Engineered Products
Reiss Mfg, Ronsil
Rubber & Kentron Plastics Div
Rubber Fab
Sentinel Process Systems
WL Gore & Assocs, Gore PharmBIO Products
Zed Industries

GASKETS - GMI®

Detectable Materials
G-M-I

GASKETS - METAL DETECTABLE

Detectable Materials
G-M-I

GASKETS - TEFLON IMPREGNATED

Detectable Materials
G-M-I

GASKETS - X-RAY DETECTABLE

Detectable Materials
G-M-I

GASKETS, OTHER

Bergen Industrial Supply Co
Chem Flowtronics
Custom Powder Systems. The Containment Co
De Dietrich Process Systems
Detectable Materials
G-M-I
MKS Instruments
Palmer Wahl
Temperature Products
Pawling Engineered Products
Praudler
Qosina
Reiss Mfg, Ronsil
Rubber & Kentron Plastics Div
Rubber Fab
Ryan Herco Flow Solutions
Ryan Specialty Valve Products LLC
Sentinel Process Systems
Top Line Process Equipment Co
WL Gore & Assocs, Gore PharmBIO Products

GASKETS, SANITARY

ARCHON Industries
Bergen Industrial Supply Co
Chem Flowtronics

Custom Powder Systems. The Containment Co
De Dietrich Process Systems
Evaporator Dryer Technologies
G-M-I
LJ Star
Lumaco
MKS Instruments
Palmer Wahl
Temperature Products
Pawling Engineered Products
Reiss Mfg, Ronsil
Rubber & Kentron Plastics Div
Rubber Fab
Ryan Herco Flow Solutions
Ryan Specialty Valve Products LLC
Sentinel Process Systems
Top Line Process Equipment Co
WL Gore & Assocs, Gore PharmBIO Products

GLOVE BOXES

3V TECH USA
Bel-Art Products
Blue Thunder Technologies
Custom Powder Systems. The Containment Co
Edgeco
F.P.S. Food and Pharma Systems srl
FabOhio
Flanders Corp, Containment Products

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- Packaging Machines
- Hammer Mills & Tablet Presses
- Blenders, Mixers, & Reactors & more!

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Hosokawa Micron
Powder Systems
Integrated Containment
Systems
Key Intl
Mycoscience
Nicos Group
Renco Corp
SMI
The Baker Co
Zed Industries

GLOVES

Ansell Protective
Products,
Occupational
Healthcare Div
Bel-Art Products
Blue Thunder
Technologies
Custom Powder
Systems. The
Containment Co
Gilson Co
Integrated Containment
Systems
QRP Gloves
Renco Corp
Shoe Inn
Wells Lamont Industrial
WL Gore & Assocs,
Gore PharmBIO
Products

**GRANULATORS,
ROTARY,
FLUID-BED,
CENTRIFUGAL**

ACG North America LLC
B&P Littleford
Bopp USA
Draiswerke
Fluid Air, Spraying
Systems Co
Franklin Miller

Freund-Vector Corp

GEA Process
Engineering, GEA
Pharma Systems
GEMCO
Glatt Air Techniques
Hosokawa Micron
Powder Systems
IMA North America
International Process
Plants IPP
Jaygo
Kason Corp
Keith Machinery Corp
Kemutec
Mendel Co
Olsa USA
ProCepT
**Robert Bosch Packaging
Technology,
Pharmaceutical
Operations**
Romaco North
American
Servolift
Urschel

**GRANULATORS,
VACUUM DRYERS**

AC Compacting LLC
B&P Littleford
Charles Ross & Son Co
Daichi Jitsugyo
(America),
Pharmaceutical Div
GEA Process
Engineering, GEA
Pharma Systems
GEMCO
Hosokawa Micron
Powder Systems
IMA North America
International Process
Plants IPP
Jaygo
Key Intl
LB Bohle LLC

Mendel Co
Olsa USA
Patterson Kelley
ProCepT
Servolift

GRINDERS

Arcejet Rocketdyne
BEE Intl
Bel-Art Products
BioSpec Products
Charles Ross & Son Co
Draiswerke
F.P.S. Food and Pharma
Systems srl
Federal Equipment Co
Fluid Energy Processing
& Equipment
Franklin Miller
Glen Mills
HealthStar
Hosokawa Micron
Powder Systems
IKA Works,
Lab, Analytical and
Process Equipment
Ingersoll-Rand,
Compressed Air
Solutions
International Process
Plants IPP
Jaygo
Kimble Chase, Life
Sciences & Research
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Perry Videx LLC
PRO Scientific
Servolift
Silverson Machines
SWECO
Urschel
Verder Scientific,
North America

HAMMERMILLS

Alexanderwerk
Federal Equipment Co
Fitzpatrick Co
Franklin Miller
Glen Mills
HealthStar
Hosokawa Micron
Powder Systems
International Process
Plants IPP
Keith Machinery Corp
LB Bohle LLC
Mendel Co
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Powdersize
Servolift
Sturtevant
Urschel
Verder Scientific,
North America

**HAND TOOLS,
AUTOCLAVABLE**

Champion Trading Corp

HANGERS, PIPELINE

Bergen Industrial
Supply Co
Detectable Materials
Top Line Process
Equipment Co

HEAT EXCHANGERS

Alfa Laval Tank
Equipment
**Allegheny Bradford
Corp, Corporate**
Anquil Environmental
Systems
API Heat Transfer,
Airtech, Basco,
Schmidt-Bretten Div

For vendor contact information, see Company Directory section.

Aries FilterWorks,
Div ResinTech
Asahi/America
Atlas Industrial Mfg Co
Avestin
Bergen Industrial
Supply Co
Bionomic Industries
BOC, A member of
The Linde Group
Buchiglas USA
Chem Flowtronics
Chromalox
De Dietrich Process
Systems
Durex Industries
Evaporator Dryer
Technologies
Exergy LLC
Federal Equipment Co
Feldmeier Equipment
Fluorotherm Polymers
GEA Process
Engineering, GEA
Pharma Systems
HC Starck
International Process
Plants IPP
JLS Intl
Jongia USA
Keith Machinery Corp
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Div
Mokon
MultiTherm LLC
Munters Corp
Perry Videx LLC
Pfaudler
Pick Heaters
Praxair
Ruland Engineering &
Consulting GmbH
Ryan Specialty Valve
Products LLC
Schutte & Koerting
Spirax Sarco
SPX Flow
The ChemPro Group
Waukesha Cherry-
Burrell, An SPX Flow
Brand, SPX Flow
Yula Corp

**HEAT RECOVERY
SYSTEMS****Allegheny Bradford
Corp, Corporate**

Anquil Environmental
Systems
Bionomic Industries
Budzar Industries
Buffalo Air Handling
Evaporator Dryer
Technologies
GEA Process
Engineering, GEA
Pharma Systems
Girton Mfg Co,
Pharmaceutical Div
Mokon
MultiTherm LLC
Munters Corp
Notch Mechanical
Constructors
Ruland Engineering &
Consulting GmbH
Spirax Sarco
SPX Flow
The ChemPro Group

**HEAT TRANSFER
FLUID**

Budzar Industries
Heat Exchange &
Transfer
International Process
Plants IPP
Julabo USA
Mokon
MultiTherm LLC
Olsa USA
Paratherm

**HEATING
EQUIPMENT
(OTHER THAN
OVENS)**

Buffalo Air Handling
Chemical Transfer
Partnership Corp,
(CTP Corp)
Custom Heat LLC
Dalton Electric
Heating Co
Glas-Col LLC
IKA Works,
Lab, Analytical and
Process Equipment
JLS Intl
Julabo USA
MicroThermics
Mokon
MultiTherm LLC
Spirax Sarco
Zed Industries

**HEPA FILTER TEST
EQUIPMENT**

Atmos-Tech Industries
Denver Instrument
Flow Sciences
HEMCO Corp
Isolation Systems

HOISTS

Bergen Industrial
Supply Co
Custom Powder
Systems. The
Containment Co
IMA North America
Ingersoll-Rand,
Compressed Air
Solutions
LB Bohle LLC
METO Corp
MO Industries
Pharmasystems
Process Solutions
Servolift
UniTech Industries

HOMOGENIZERS

AC Compacting LLC
Arce Barinco,
Aerojet Rocketdyne
Avestin
BEE Intl
Bematek Systems
BioSpec Products
Branson Ultrasonics
Corp
BUCHI Corp
Champion Trading Corp
Charles Ross & Son Co
Draiswerke
GEA Process
Engineering, GEA
Pharma Systems
GEMCO
Glas-Col LLC
Glen Mills
IKA Works,
Lab, Analytical and
Process Equipment
International Process
Plants IPP
Jaygo
Keith Machinery Corp
Key Intl
Kimble Chase, Life
Sciences & Research
Kinematica
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Div
Marion Process
Solutions
Microfluidics
MicroThermics
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Olsa USA
Omni Intl
PRO Scientific

ProCepT
Process Tek
Readco Kurimoto LLC
Ruland Engineering &
Consulting GmbH
Scientific Industries
Silverson Machines
Sonics & Materials
SPX Flow
Urschel

**HUMIDIFICATION -
GENERATION AND
DISPERSION**

Parameter Generation &
Control

**HUMIDITY
CHAMBERS**

Bahnsen Environmental
Specialties,
An EMCOR Co
CARON Products
Services
Cincinnati Sub-Zero
E Instruments Intl
EdgeTech Moisture +
Humidity
Isolation Systems
Kaymont Consolidated
Industries
Keith Machinery Corp
Parameter Generation &
Control
Powers Scientific
Rotronic
Vindonwestech

HVAC EQUIPMENT

Ashcroft
Buffalo Air Handling
Condair plc
Driestem
E Instruments Intl
EdgeTech Moisture +
Humidity
Flanders Corp,
Containment Products
HEMCO Corp
Isolation Systems
MultiTherm LLC
Munters Corp
Notch Mechanical
Constructors
Palmer Wahl
Temperature Products
Quality Air Control
Westfield Sheet
Metal Works

ICE PACKS

Cold Chain
Technologies
Mesa Labs

**IN-PROCESS
MICROBIOLOGICAL
CONTROL DEVICES**

Azbil North America,
BioVigilant Div
Brookfield AMETEK
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Pall Life Sciences,
Biopharmaceuticals

INCUBATORS

Bahnsen Environmental
Specialties,
An EMCOR Co
CARON Products
Services
Cincinnati Sub-Zero
E Instruments Intl
ESCO Technologies,
Esco Pharma Factory
Globe Scientific
Harris Environmental
Systems

IKA Works,
Lab, Analytical and
Process Equipment
Mycoscience
Powers Scientific
Vindonwestech
Wheaton Industries,
Wheaton Science
Packaging

**INDUSTRIAL
COATINGS AND
PAINTS**

ITW Polymers Sealants,
Futura Coatings
Newson Gale

**INSPECTION
DEVICES**

AC Compacting LLC
AGR Intl
Angstrom Supply
Anorad,
Rockwell Automation
AWS Bio-Pharma
Technologies
Capmatic Ltd
Champion Trading Corp
Cognex Corp
Cozzoli Machine Co
Daichi Jitsugyo
(America),
Pharmaceutical Div
E Instruments Intl
Efficient Automated
Machine Corp
Fortress Technology
FSI Technologies
Global Vision
HealthStar
Integrated Packaging
Systems
ISRA Surface Vision
Kaps-All Packaging
Systems
Lake Image Systems
Lenox Instrument Co
LJ Star
Lock Inspection
Systems
Loma Systems,
an ITW Co
LT Industries
Mendel Co

Mettler Toledo PCE,
Product Inspection
Mettler-Toledo
Hi-Speed, Product
Inspection
Mettler-Toledo Safeline,
Product Inspection
New England Machinery
Optical Gaging
Products (OGP),
Quality Vision Intl
Palmer Wahl
Temperature Products
Proditec
Product Identification
Processing Systems
PTI Packaging
Technologies &
Inspection LLC
Qualicaps
R. W. Hartnett Co
RAM Optical
Instrumentation (RAM)

**Robert Bosch Packaging
Technology,
Pharmaceutical
Operations**

Ryan Specialty Valve
Products LLC
Seidenader
Maschinenbau GmbH
Sepha Ltd
Sotax Corp
SSE Technologies
Symetix
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Victor Intl Mktg

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INSULATED CONTAINERS

Bel-Art Products
Cold Chain Technologies
Custom Powder Systems. The Containment Co
Edgeco
MARKEN
Remcon Plastics
TRS Containers

INSULATION

Ryan Herco Flow Solutions

INTEGRITY TEST INSTRUMENTS

Charles River, Microbial Solutions
Kaps-All Packaging Systems
Lenox Instrument Co
LT Industries
Mecmesin Corp
Pall Corp, Life Sciences Group
Pall Life Sciences, Biopharmaceuticals
Process Tek
PTI Packaging Technologies & Inspection LLC
Texture Technologies Corp

IONIZATION EQUIPMENT

ClearWater Enviro Technologies
Isolation Systems
Meech Static Eliminators USA
New England Machinery
PlugIn Storage Systems - PSSI
Simco-Ion, Illinois Tool Works Co

KNEADERS, HIGH VISCOSITY

IKA Works, Lab, Analytical and Process Equipment
Jaygo

LAMINAR-FLOW TEST EQUIPMENT

Angstrom Supply
Denver Instrument
F.P.S. Food and Pharma Systems srl
General Lab & Cleanroom Supply
Gerbig Engineering
HEMCO Corp
Kewaunee Scientific Corp
LM Air Technology, Cleanroom & Lab Equipment
Mycoscience

LEAFLET-FOLDING EQUIPMENT

G&K-Vijuk Intl
Sancilio & Co

LIFTERS, MOVABLE

EHS Solutions LLC
Fluid Air, Spraying Systems Co
Interthor
Isolation Systems
LB Bohle LLC
Liftomatic Material Handling
METO Corp
MO Industries
Process Solutions

Roni
Sancilio & Co
Servolift
UniTech Industries

LIFTERS, STATIONARY

DRIAM USA
EHS Solutions LLC
Isolation Systems
LB Bohle LLC
Liftomatic Material Handling
METO Corp
MO Industries
Process Solutions
Roni
Sancilio & Co
Servolift
UniTech Industries

LIGHTING, PLASTIC-COATED

BOC, A member of The Linde Group
Isolation Systems

LUBRICANTS FOR TABLET PRESSES

Elizabeth Carbide Die Co
General Magnaplate Corp
International Products Corp
Wilson Tool Intl

LYOPHILIZERS (FREEZE DRYERS)

BioPro Intl
Chem Flowtronics
Clordisys Solutions
Daichi Jitsugyo (America), Pharmaceutical Div
ESCO Technologies, Escoc Pharma Factory
IMA North America
International Process Plants IPP
Keith Machinery Corp
Millrock Technology
Molded Fiber Glass Tray Co
Optima Machinery Corp
Praxair
SP Scientific - HULL/VIRTIS/FTS

MANIFOLDS

AdvantaPure
Alfa Laval Tank Equipment

Allegheny Bradford Corp, Corporate

Bergen Industrial Supply Co
Chem Flowtronics
Festo Corp
Fluid Air, Spraying Systems Co
GEA Tuuchenhagen North America
Intellitech
Kimble Chase, Life Sciences & Research
MKS Instruments
Oyster Bay Pump Works
Phenomenex
Rubber Fab
SP Scientific - HULL/VIRTIS/FTS
SPX Flow
Waukesha Cherry-Burrell, An SPX Flow Brand, SPX Flow
WL Gore & Assocs, Gore PharmBIO Products

MANUFACTURING EXECUTION SYSTEMS (MES) (SEE ALSO INFORMATION TECHNOLOGIES SECTION)

GEA Process Engineering, GEA Pharma Systems
PharmaDirections
Rockwell Automation
The Rovisys Co

MANUFACTURING RESOURCE/MATERIAL REQUIREMENTS PLANNING (MRP) (SEE ALSO INFORMATION TECHNOLOGIES SECTION)

Deacom
Notch Mechanical Constructors
Rockwell Automation

MECHANICAL SEALS

3V TECHNICAL
Ashcroft
Bergen Industrial Supply Co
Buchiglas USA
Chem Flowtronics
Pfaudler
Waukesha Cherry-Burrell, An SPX Flow Brand, SPX Flow

MEDICAL TAPES

Adhesives Research
DelStar Technologies
Thomas Scientific

MEDICAL WASTE DISPOSAL SUPPLIES

Safety Storage
Security Engineered Machinery
Thomas Scientific

METERED DOSE INHALERS

Ball

METERING, PUMPS AND PUMP SYSTEMS

Airgas
Ball
Bergen Industrial Supply Co
BioChem Fluidics
BioPro Intl
Cozzoli Machine Co
Filamatic, National Instrument LLC
First Sensor
Fluid Metering
Fristam Pumps USA
IVEK Corp
JLS Intl
Kaps-All Packaging Systems
Nash, by Gardner Denver
Omega Engineering
Oyster Bay Pump Works
Plast-O-Matic Valves
Pulsafeeder / Unit of IDEX Corp, Engineered Pump Operations
Sensaphone
Spirax Sarco
SPX Flow
SSI/LabAlliance
Thar Process
Unibloc-Pump, Flowtech Div

Vanton Pump & Equipment Corp
Waukesha Cherry-Burrell, An SPX Flow Brand, SPX Flow

MICROBIOLOGICAL MANUFACTURING

BD Diagnostics
Bioscience
ProteinLabs

MICROEMULSIFYING EQUIPMENT

BEE Intl
Bematek Systems
Branson Ultrasonics Corp
Charles Ross & Son Co
GEA Process Engineering, GEA Pharma Systems
Glen Mills
Microfluidics
Process Tek

MICROSPHERES

AC Compacting LLC
Air Techniques Intl (ATI)
Bangs Labs
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany

MICROSPHERES, COATED

AC Compacting LLC
Bangs Labs
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany

MICROWAVE OVEN, CHEMICAL SYNTHESIS

CEM Corp
Marion Process Solutions

MILLING AND GRINDING, ATTRITION MILLS

AC Compacting LLC
Champion Trading Corp
Draiswerke
F.P.S. Food and Pharma Systems srl
Fluid Energy Processing & Equipment
Franklin Miller
Glen Mills
Hosokawa Micron Powder Systems
International Process Plants IPP
Jaygo
Keith Machinery Corp
Kemutec
Mendel Co
Myers Mixers
NETZSCH Premier Technologies LLC, Grinding & Dispersing
Nicos Group
Olsa USA
Powdersize
Servolift
Sturtevant
The Jet Pulverizer Co
The Young Industries
Urschel

MILLING AND GRINDING, COARSE CRUSHERS

Alexanderwerk
Arde Barinco, Aerojet Rocketdyne
Bel-Art Products
Capital Resin Corp
Champion Trading Corp

Daichi Jitsugyo (America), Pharmaceutical Div
Draiswerke
Federal Equipment Co
Fitzpatrick Co
Franklin Miller
Glen Mills
Hosokawa Micron Powder Systems
IKA Works, Lab, Analytical and Process Equipment
International Process Plants IPP
Kemutec
LB Bohle LLC
Mendel Co
NETZSCH Premier Technologies LLC, Grinding & Dispersing
Nicos Group
Olsa USA
Servolift
Sturtevant
The Young Industries
Urschel
Verder Scientific, North America
Waukesha Cherry-Burrell, An SPX Flow Brand, SPX Flow
Whirlwind Engineering

MILLING AND GRINDING, COLLOID MILLS

Arde Barinco, Aerojet Rocketdyne
BEE Intl
Bematek Systems
Champion Trading Corp
Charles Ross & Son Co
Draiswerke
EKATO Corp
Federal Equipment Co
Franklin Miller
Glen Mills
HealthStar
Hosokawa Micron Powder Systems
International Process Plants IPP
Keith Machinery Corp
Kemutec
LB Bohle LLC
Mendel Co
NETZSCH Premier Technologies LLC, Grinding & Dispersing
Olsa USA
Sancilio & Co
Servolift
Thomas Scientific
Urschel
Whirlwind Engineering

MILLING AND GRINDING, FINE GRINDING

AC Compacting LLC
Alexanderwerk
Arde Barinco, Aerojet Rocketdyne
BEE Intl
Bel-Art Products
Bematek Systems
Daichi Jitsugyo (America), Pharmaceutical Div
Draiswerke
ESCO Technologies, Escoc Pharma Factory
F.P.S. Food and Pharma Systems srl
Fitzpatrick Co
Fluid Air, Spraying Systems Co
Fluid Energy Processing & Equipment
Franklin Miller
Glen Mills

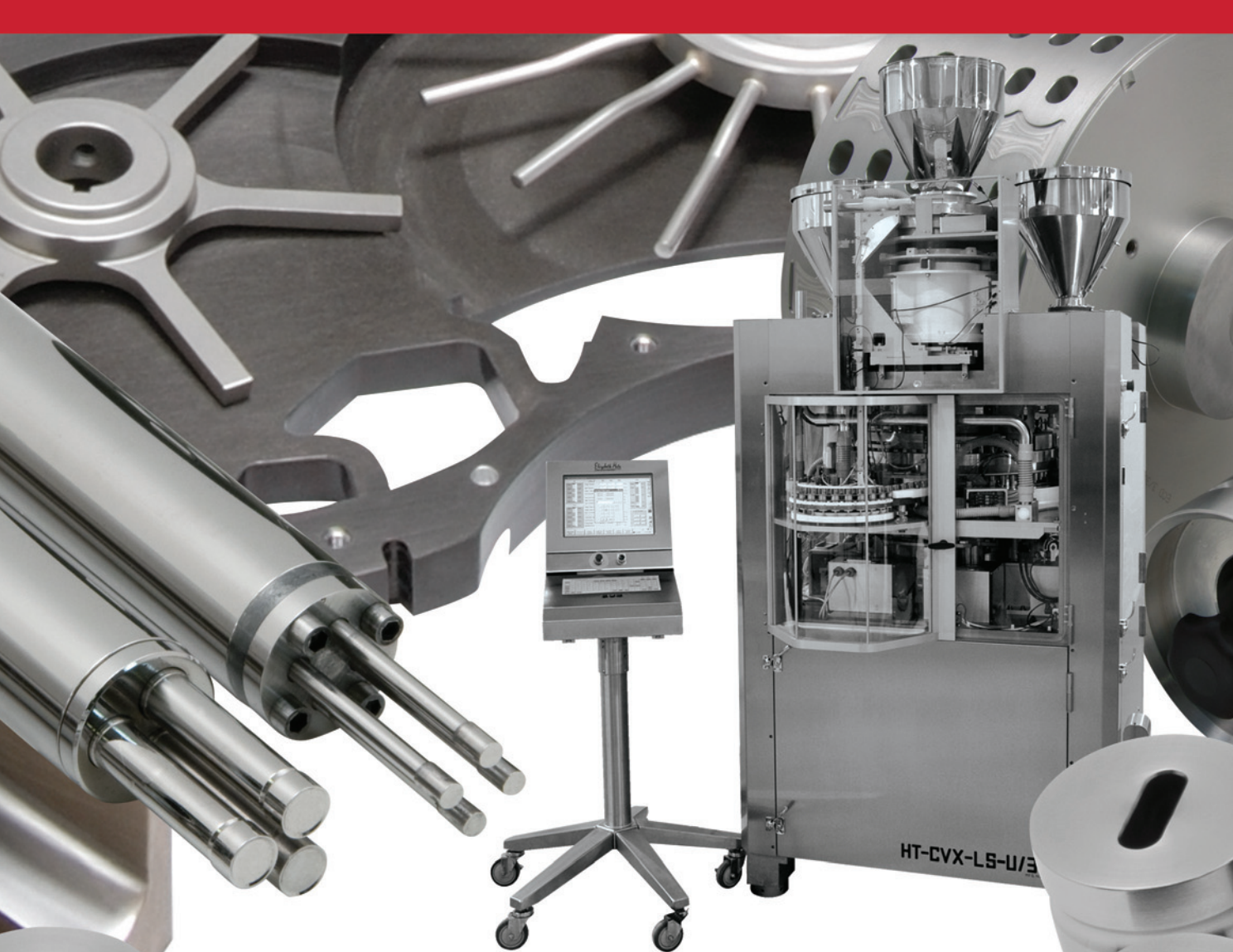
Hosokawa Micron Powder Systems
IKA Works, Lab, Analytical and Process Equipment
International Process Plants IPP
Jaygo
Keith Machinery Corp
Kemutec
Kinematica
LB Bohle LLC
Mendel Co
Myers Mixers
NETZSCH Premier Technologies LLC, Grinding & Dispersing
Nicos Group
Olsa USA
Powdersize
Servolift
Sturtevant
The Jet Pulverizer Co
Urschel
Verder Scientific, North America
Waukesha Cherry-Burrell, An SPX Flow Brand, SPX Flow
Whirlwind Engineering

MILLING AND GRINDING, GRANULATORS

AC Compacting LLC
Capital Resin Corp
Champion Trading Corp
CMS Technologies
Fitzpatrick Co
Franklin Miller
GCA Products
Glen Mills
HealthStar
Hosokawa Micron Powder Systems
International Process Plants IPP
Keith Machinery Corp
Kemutec
LB Bohle LLC
Mendel Co
NETZSCH Premier Technologies LLC, Grinding & Dispersing
Olsa USA
Sancilio & Co
Servolift
Thomas Scientific
Urschel
Whirlwind Engineering

MILLING AND GRINDING, INTERMEDIATE PULVERIZERS

AC Compacting LLC
Daichi Jitsugyo (America), Pharmaceutical Div
F.P.S. Food and Pharma Systems srl
Fitzpatrick Co
Franklin Miller
Glen Mills
HealthStar
Hosokawa Micron Powder Systems
ILC Dover
International Process Plants IPP
Keith Machinery Corp
Kemutec
Mendel Co
NETZSCH Premier Technologies LLC, Grinding & Dispersing
Nicos Group
Olsa USA
Powdersize
Servolift
Sturtevant
Urschel
Whirlwind Engineering



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MILLING AND GRINDING, OINTMENT MILLS

Arde Barinco,
Aerojet Rocketdyne
Bematek Systems
Champion Trading Corp
Charles Ross & Son Co
EKATO Corp
Glen Mills
Hosokawa Micron
Powder Systems
International Process
Plants IPP
Jaygo
Kemutec
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Nicos Group
Olsa USA
Silverson Machines
Torpac
Urschel

MILLS, CELL RUPTURE

Arde Barinco,
Aerojet Rocketdyne
Avestin
BEE Intl
Bematek Systems
Draiswerke
GEA Process
Engineering, GEA
Pharma Systems
Glen Mills
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Olsa USA
The Jet Pulverizer Co
Urschel
Verder Scientific,
North America

MIXERS, BLENDER/HOMOGENIZER

AC Compacting LLC
Arde Barinco,
Aerojet Rocketdyne
Avestin
B&P Littleford
BEE Intl
Bematek Systems
Bioengineering
BioPro Intl
BioSpec Products
Branson Ultrasonics
Corp
BUCHI Corp
Champion Trading Corp
Charles Ross & Son Co
Cleveland Eastern
Mixers, Div EMI
Custom Powder
Systems. The
Containment Co
DCI
DCI-Biolafitte
Draiswerke
Dynamic Air
EKATO Corp
Fristam Pumps USA
GEA Process
Engineering, GEA
Pharma Systems
GEMCO
Glen Mills
HealthStar
Hosokawa Micron
Powder Systems
IKA Works,
Lab, Analytical and
Process Equipment
International Process
Plants IPP
Jaygo

JLS Intl
Kemutec
Key Intl
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Div
Lightnin, An SPX Brand,
SPX Flow Technology
Marion Process
Solutions
MECO Seal
Mendel Co
MO Industries
Morse Mfg Co
Myers Mixers
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Nicos Group
Olsa USA
Omni Intl
Perry Videx LLC
PRO Scientific
Readco Kurimoto LLC
Ruland Engineering &
Consulting GmbH
Ryan Specialty Valve
Products LLC
Scientific Industries
Servolift
Silverson Machines
Steridose Sales
Verder Scientific,
North America

MIXERS, COOKER

A&B Process Systems,
JBT Corp
B&P Littleford
Charles Ross & Son Co
Chem Flowtronics
DCI
DCI-Biolafitte
Draiswerke
EKATO Corp
Feldmeier Equipment
GEA Process
Engineering, GEA
Pharma Systems
International Process
Plants IPP
JLS Intl
Jongia USA
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Div
MECO Seal
Myers Mixers
Olsa USA
Pick Heaters
SPX Flow

MIXERS, DISPOSABLE

Chem Flowtronics
DCI-Biolafitte
Hosokawa Micron
Powder Systems
JLS Intl
Kimble Chase, Life
Sciences & Research
Olsa USA
Omni Intl
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
PRO Scientific

MIXERS, HIGH VISCOSITY

Chem Flowtronics
DCI-Biolafitte
Fristam Pumps USA
IKA Works,
Lab, Analytical and
Process Equipment
Jaygo
JLS Intl
Kemutec

For vendor contact information, see Company Directory section.

MIXERS, HIGH-SHEAR

AC Compacting LLC
Arde Barinco,
Aerojet Rocketdyne
Avestin
Bematek Systems
BioSpec Products
Briggs of Burton
Charles Ross & Son Co
CMS Technologies
Daichi Jitsugyo
(America),
Pharmaceutical Div
DCI
DCI-Biolafitte
EKATO Corp
Fluid Air, Spraying
Systems Co

Freund-Vector Corp

Fristam Pumps USA
GEA Process
Engineering, GEA
Pharma Systems
GEMCO
Hosokawa Micron
Powder Systems
IKA Works,
Lab, Analytical and
Process Equipment
Indco
International Process
Plants IPP
Jaygo
JLS Intl
Kemutec
Key Intl
LB Bohle LLC
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Div
Lightnin, An SPX Brand,
SPX Flow Technology
Marion Process
Solutions
Mendel Co
Munson Machinery Co
Myers Mixers
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Nicos Group
Olsa USA
Omni Intl
PRO Scientific
ProCePT

Robert Bosch Packaging Technology, Pharmaceutical Operations

Ryan Specialty Valve
Products LLC
Servolift
Silverson Machines
SPX Flow, Anhydro
SPX Flow

MIXERS, HIGH-SPEED

Arde Barinco,
Aerojet Rocketdyne
B&P Littleford
BEE Intl
Bematek Systems
BioSpec Products
Briggs of Burton
Champion Trading Corp
Charles Ross & Son Co
Cleveland Eastern
Mixers, Div EMI
DCI
DCI-Biolafitte
De Dietrich Process
Systems
Draiswerke
Dynamic Air
EKATO Corp
Fristam Pumps USA
GEA Process
Engineering, GEA
Pharma Systems
GEMCO
Glas-Col LLC
Glen Mills

HealthStar
Hosokawa Micron
Powder Systems
IKA Works,
Lab, Analytical and
Process Equipment
IMA North America
Indco
International Process
Plants IPP
Jaygo
JLS Intl
Kemutec
Key Intl
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Div
Lightnin, An SPX Brand,
SPX Flow Technology
Magna-Safe Intl
Myers Mixers
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Nicos Group
Omni Intl
Patterson Kelley
PRO Scientific
Readco Kurimoto LLC
Scientific Industries
Servolift
Silverson Machines
SPX Flow
Steridose Sales
Union Scientific Corp

MIXERS, LIQUID

3V TECH USA
Alfa Laval Tank
Equipment
Arde Barinco,
Aerojet Rocketdyne
B&P Littleford
BEE Intl
Bematek Systems
BioPro Intl
Briggs of Burton
Champion Trading Corp
Charles Ross & Son Co
Cleveland Eastern
Mixers, Div EMI
Daichi Jitsugyo
(America),
Pharmaceutical Div
DCI
DCI-Biolafitte
De Dietrich Process
Systems
Draiswerke
EKATO Corp
Eppendorf
ErtelAlsop
Fristam Pumps USA
GEA Process
Engineering, GEA
Pharma Systems
Glen Mills
Hosokawa Micron
Powder Systems
IKA Works,
Lab, Analytical and
Process Equipment
ILC Dover
Indco
International Process
Plants IPP
Jaygo
JLS Intl
Key Intl
Keystone Process
Equipment
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Div
Lightnin, An SPX Brand,
SPX Flow Technology
Magna-Safe Intl
Marion Process
Solutions
MECO Seal
Mendel Co
Morse Mfg Co
Myers Mixers

NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Olsa USA
Omni Intl
Perry Videx LLC
Pfaudler
Readco Kurimoto LLC
Ryan Specialty Valve
Products LLC
Sartorius Stedim
North America
Scientific Industries
Silverson Machines
SPX Flow, Anhydro
SPX Flow
Terracon Corp
Union Scientific Corp

MIXERS, MAGNETICALLY COUPLED

Alfa Laval Tank
Equipment
Bergen Industrial
Supply Co
Briggs of Burton
Buchigas USA
GEA Process
Engineering, GEA
Pharma Systems
IKA Works,
Lab, Analytical and
Process Equipment
Magna-Safe Intl
Ryan Specialty Valve
Products LLC
SPX Flow
Steridose Sales

MIXERS, MASS

B&P Littleford
Briggs of Burton
Charles Ross & Son Co
Daichi Jitsugyo
(America),
Pharmaceutical Div
Draiswerke
EKATO Corp
Fristam Pumps USA
GEA Process
Engineering, GEA
Pharma Systems
GEMCO
HealthStar
IKA Works,
Lab, Analytical and
Process Equipment
International Process
Plants IPP
Jaygo
JLS Intl
Kemutec
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Div
Lightnin, An SPX Brand,
SPX Flow Technology
Mendel Co
Morse Mfg Co
Nicos Group
Olsa USA
Readco Kurimoto LLC
The Young Industries

MIXERS, POWDER

B&P Littleford
Briggs of Burton
Champion Trading Corp
Charles Ross & Son Co
Custom Powder
Systems. The
Containment Co
Daichi Jitsugyo
(America),
Pharmaceutical Div
De Dietrich Process
Systems
Diamondback
Technology
Draiswerke
Dynamic Air
EKATO Corp

Fluid Air, Spraying
Systems Co
Fristam Pumps USA
GEA Process
Engineering, GEA
Pharma Systems
GEMCO
Glen Mills
Heinkel
Hosokawa Micron
Powder Systems
IKA Works,
Lab, Analytical and
Process Equipment
International Process
Plants IPP
Jaygo
JLS Intl
Kemutec
Key Intl
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Div
Marion Process
Solutions
MECO Seal
Mendel Co
MO Industries
Morse Mfg Co
Nicos Group
Olsa USA
Perry Videx LLC
Process Solutions
Readco Kurimoto LLC
Servolift
Sigma Equipment Corp
The Young Industries
Torpac
Union Scientific Corp
Whirlwind Engineering

MIXERS, SELF-CLEANING

Alfa Laval Tank
Equipment
B&P Littleford
BEE Intl
Charles Ross & Son Co
Diamondback
Technology
Dynamic Air
EKATO Corp
Fristam Pumps USA
Hosokawa Micron
Powder Systems
IKA Works,
Lab, Analytical and
Process Equipment
International Process
Plants IPP
Jaygo
JLS Intl
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Div
Lightnin, An SPX Brand,
SPX Flow Technology
Olsa USA
Readco Kurimoto LLC
Silverson Machines
Steridose Sales

MIXERS, VACUUM

Arde Barinco,
Aerojet Rocketdyne
B&P Littleford
Briggs of Burton
Champion Trading Corp
Charles Ross & Son Co
Draiswerke
EKATO Corp
Federal Equipment Co
Fristam Pumps USA
GEMCO
HealthStar
Heinkel
Hosokawa Micron
Powder Systems
IKA Works,
Lab, Analytical and
Process Equipment
Indco

International Process
Plants IPP
Jaygo
Jongia USA
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Div
Lightnin, An SPX Brand,
SPX Flow Technology
Magna-Safe Intl
Marion Process
Solutions
Myers Mixers
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Nicos Group
Olsa USA
Perry Videx LLC
ProCepT
Schutte & Koerting
Servolift
The Young Industries
Vac-U-Max

MIXERS, VERTICAL
3V TECH USA
Arde Barinco,
Aerojet Rocketdyne
Briggs of Burton
Charles Ross & Son Co
Chem Flowtronics
DCI
DCI-Biolafitte
EKATO Corp
ErtelAlsop
GEMCO
Hosokawa Micron
Powder Systems
Indco
International Process
Plants IPP
Jaygo
Kemutec
Lightnin, An SPX Brand,
SPX Flow Technology
Marion Process
Solutions
MECO Seal
Myers Mixers
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Nicos Group
Olsa USA
Servolift

MIXERS, VIBRATING
Federal Equipment Co
Fristam Pumps USA
GEA Process
Engineering, GEA
Pharma Systems
Hosokawa Micron
Powder Systems
International Process
Plants IPP
Kemutec
Olsa USA
PRO Scientific
Union Scientific Corp

MIXERS, VORTEXING
Arde Barinco,
Aerojet Rocketdyne
Charles Ross & Son Co
Chem Flowtronics
EKATO Corp
Eppendorf
Fristam Pumps USA
GEA Process
Engineering, GEA
Pharma Systems
GEMCO
Globe Scientific
IKA Works,
Lab, Analytical and
Process Equipment
ILC Dover
Indco
Jaygo
Kemutec

NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Olsa USA
PRO Scientific
Steridose Sales

MOISTURE CONTROL SYSTEMS
Denver Instrument
LT Industries
Munters Corp
Spirax Sarco
WA Hammond Drierite
Co Ltd
WL Gore & Assocs,
Gore PharmBIO
Products

MOLDS
Sigma Equipment Corp
Torpac

NITROGEN-ENRICHED AIR GENERATION
Isolation Systems
Parker Hannifin
ProCepT

NOZZLES
Ball
BEE Intl
BETE Fog Nozzle
Evaporator Dryer
Technologies
Fluid Air, Spraying
Systems Co
Kaps-All Packaging
Systems
Strahman Valves

O RINGS
De Dietrich Process
Systems
Fenner Drives
G-M-I
MKS Instruments
Palmer Wahl
Temperature Products
Pawling Engineered
Products
Qosina
Restek Corp
Ryan Specialty Valve
Products LLC
Sartorius Stedim
North America
Sentinel Process
Systems
Waukesha Cherry-
Burrell, An SPX Flow
Brand, SPX Flow

OVENS, DRYING
AWS Bio-Pharma
Technologies
BUCHI Corp
Buhler Aeroglide
Champion Trading Corp
Despatch - ITW EAE,
Div of Illinois
Tool Works
Federal Equipment Co
HealthStar
Milestone
Nicos Group
Optima Machinery Corp
Pink GmbH
Thermosysteme
The Grieve Corp
Thomas Scientific
TPS
Verder Scientific,
North America
Werner Mathis USA,
North America

OVENS, INDUSTRIAL
Biotage
Buhler Aeroglide

Champion Trading Corp
Despatch - ITW EAE,
Div of Illinois
Tool Works
Gilsco Co
Liftomatic Material
Handling
Olsa USA
Pink GmbH
Thermosysteme
The Grieve Corp
TPS
Verder Scientific,
North America

OVENS, REVOLVING
Verder Scientific,
North America

OVENS, STERILIZING
AWS Bio-Pharma
Technologies
Buhler Aeroglide
Despatch - ITW EAE,
Div of Illinois
Tool Works
ESCO Technologies,
Esco Pharma Factory
Federal Equipment Co
General Lab &
Cleanroom Supply
HealthStar
Nicos Group
Olsa USA
Optima Machinery Corp
Pink GmbH
Thermosysteme
Process Tek
Reimers Electra Steam
The Grieve Corp
TPS

OVENS, VACUUM
F.P.S. Food and Pharma
Systems srl
General Lab &
Cleanroom Supply
HealthStar
Olsa USA
Pink GmbH
Thermosysteme
The Grieve Corp
Verder Scientific,
North America

PANS, COATING
AC Compacting LLC
Driam USA
Freund-Vector Corp
IMA North America
International Process
Plants IPP
Nicos Group
ProCepT

PANS, POLISHING
Driam USA
Federal Equipment Co
Keith Machinery Corp
Nicos Group

PANS, VACUUM
3V TECH USA
COMBER Process
Technology S.r.l.
Evaporator Dryer
Technologies
International Process
Plants IPP
Keith Machinery Corp
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Div

PASTEURIZERS
API Heat Transfer,
Airtech, Basco,
Schmidt-Bretten Div
Evaporator Dryer
Technologies
Feldmeier Equipment

Keith Machinery Corp
MicroThermics
Pick Heaters
Process Tek

PELLETIZERS
Alexanderwerk
B&P Littleford
Brookfield AMETEK
Cermex
Draiswerke
Glatt Air Techniques
International Process
Plants IPP
JLS Intl
Keith Machinery Corp
Nicos Group
Sigma Equipment Corp

PHOTOMETERS
Air Techniques Intl (ATI)
Artel
Eppendorf
First Sensor
Konica Minolta Sensing
Americas

PIPE, COATED
Chem Flowtronics
Detectable Materials
Fab-Tech
Ryan Herco Flow
Solutions

PIPE, FLUOROPOLYMER-LINED
AdvantaPure
Bergen Industrial
Supply Co
Detectable Materials
Chem Flowtronics

Detectable Materials
Fab-Tech
Ryan Herco Flow
Solutions

PIPE, GLASS-LINED
Brookfield AMETEK
Chem Flowtronics
De Dietrich Process
Systems
Detectable Materials
Pfaudler
Ryan Herco Flow
Solutions

PIPE, OTHER
AdvantaPure
Detectable Materials
HC Starck
JLS Intl
Pfaudler
Powder-Solutions
RathGibson
Ryan Herco Flow
Solutions
TW Metals

PIPE, PP
AdvantaPure
Asahi/America
Detectable Materials
Ryan Herco Flow
Solutions

PIPE, PVC
AdvantaPure
Asahi/America
Bergen Industrial
Supply Co
Detectable Materials
Ryan Herco Flow
Solutions

PIPE, PVDF
Asahi/America
Bergen Industrial
Supply Co
Detectable Materials
Ryan Herco Flow
Solutions

PIPE, STAINLESS STEEL
A&B Process Systems,
JBT Corp
AdvantaPure
Alfa Laval Tank
Equipment
Bergen Industrial
Supply Co
Chem Flowtronics
Detectable Materials
Integrated Gas Services
JLS Intl
Liburdi Dimetrics Corp
MKS Instruments
RathGibson
Ruland Engineering &
Consulting GmbH
TW Metals

PIPETTING SYSTEMS
Artel
Bel-Art Products
Detectable Materials
Eppendorf
Fluid Metering
Globe Scientific
IVEK Corp
Kimble Chase, Life
Sciences & Research
Oyster Bay Pump Works
Sartorius Stedim
North America
Wheaton Industries,
Wheaton Science
Packaging

Twin Screw Extruders and Systems

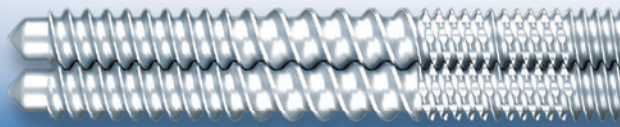
Experience Counts!

- nano-scale twin screw extruders
- Production twin screw extrusion systems
- Pharmaceutical Extrusion Seminars
- Process laboratory for melt/granulation extrusion
- Validation documentation and services

Leistritz
Leistritz Extrusion

A Business Unit of Leistritz Advanced Technologies Corp.

175 Meister Avenue, Somerville, NJ 08876, USA
Ph 908-685-2333 E-mail sales@leistritz-extrusion.com
www.leistritz-extrusion.com



Melt extrusion + Granulation + Dosage Forms + Transdermals

POWDER FLOWABILITY

Custom Powder Systems. The Containment Co
Evaporator Dryer Technologies
Fluid Air, Spraying Systems Co
Freeman Technology
Hosokawa Micron Powder Systems
ILC Dover
Imerys, Filtration Jenike & Johanson
Quantachrome Instruments
Vac-U-Max

POWDER LEVEL SENSORS

APD Systems
Automation Products, Dynatrol®
BinMaster, Div Garner Industries
IFM Efector
Vac-U-Max

POWDER SCOOPS

Bel-Art Products
Process Solutions

POWDER SEGREGATION TESTERS

Black Forest Container Systems
Jenike & Johanson
Texture Technologies Corp

POWDER TESTING/TESTER

Brookfield AMETEK
Freeman Technology
Hosokawa Micron Powder Systems
Jenike & Johanson
Quantachrome Instruments

PRESSES, COMPACT

AC Compacting LLC
Carver

Fette Compacting America

HealthStar
International Process Plants IPP
Keith Machinery Corp
Kemwall Distrs Ltd
KIKUSUI USA
KORSCH America
MCC-Measurement Control Corp
Mendel Co
Natoli Engineering Co
Pharma Technology
Robert Bosch Packaging Technology, Pharmaceutical Operations
SMI
Wabash MPI
Wilson Tool Intl

PRESSES, TABLET

AC Compacting LLC
ACG North America LLC
Champion Trading Corp
Contract Pharmacal Corp

Elizabeth Carbide Die Co**Fette Compacting America**

GCA Products
HealthStar
IMA North America

International Process

Plants IPP
Keith Machinery Corp
Key Intl
KIKUSUI USA
KORSCH America
MCC-Measurement Control Corp
Mendel Co

**.....
Natoli Engineering Co**

636-926-8900
fax 636-926-8910
info@natoli.com
www.natoli.com

**See ad on page 37
.....**

Nicos Group
Romaco North American
Sancilio & Co
SMI
Verder Scientific, North America
Wabash MPI
Wilson Tool Intl

PRESSES, TABLET, REBUILDING SERVICE

Champion Trading Corp
Elizabeth Carbide Die Co

Extrel CMS Fette Compacting America

GCA Products
GEA Process Engineering, GEA Pharma Systems
HealthStar
IMA North America
Keith Machinery Corp
KIKUSUI USA
MCC-Measurement Control Corp
Mendel Co
Natoli Engineering Co
Robert Bosch Packaging Technology, Pharmaceutical Operations
SMI
Wilson Tool Intl

PRESSES, TABLET, REPLACEMENT PARTS

AC Compacting LLC
Elizabeth Carbide Die Co

Fette Compacting America

GCA Products
HealthStar
IMA North America
International Process Plants IPP
Keith Machinery Corp
Key Intl
KIKUSUI USA
KORSCH America
MCC-Measurement Control Corp
Mendel Co

**.....
Natoli Engineering Co**

636-926-8900
fax 636-926-8910
info@natoli.com
www.natoli.com

**See ad on page 37
.....**

Sancilio & Co
SMI
Wilson Tool Intl

PRESSURE GAUGES, PRECISION TEST

AGR Intl
AMETEK, Sensors, Test & Calibration
Ashcroft

For vendor contact information, see Company Directory section.

Beamex
Bergen Industrial Supply Co
Festo Corp
GEA Tuuchenhagen North America
Isolation Systems
MKS Instruments
Palmer Wahl

**.....
Temperature Products**

Plast-O-Matic Valves
RJM Sales
Rockwell Automation
Ryan Specialty Valve Products LLC
Siemens Process Industries + Drives
SMI
Top Line Process Equipment Co
Two Dimensional Instruments
Viatran
WIKa Instrument Corp

PRESSURE REGULATORS AND VALVES

Asahi/America
Bergen Industrial Supply Co
Detectable Materials
Festo Corp
GEMU Valves
Ingersoll-Rand, Compressed Air Solutions
Isolation Systems
MKS Instruments
Nicholson Steam Trap, Div Circor Intl
Omega Engineering
Plast-O-Matic Valves
Praxair
Ryan Specialty Valve Products LLC
Scott Medical Products
Spirax Sarco
SPX Flow
Thar Process
Top Line Process Equipment Co
WIKa Instrument Corp

PRESSURE SENSOR FITTINGS

Bergen Industrial Supply Co
Conax Technologies
Festo Corp
IFM Efector
MKS Instruments
Omega Engineering
Oseco
Palmer Wahl
Temperature Products
Sensor Products
Top Line Process Equipment Co
Unibloc-Pump, Flowtech Div
WIKa Instrument Corp

PRESSURE SENSORS, ELECTRONIC

Anderson-Negele
Ashcroft
Bergen Industrial Supply Co
Festo Corp
First Sensor
GE Sensing & Inspection Technologies
GEA Tuuchenhagen North America
IFM Efector
Mesa Labs
MKS Instruments
Omega Engineering
Oseco
Palmer Wahl
Temperature Products

RJM Sales
Rockwell Automation
Sensor Products
Siemens Process Industries + Drives
SMI
Two Dimensional Instruments
Uehling Instrument Co
Viatran
WIKa Instrument Corp

PRESSURE TRANSMITTERS

ABB, Process
Automation Div
Anderson-Negele
Ashcroft
Bergen Industrial Supply Co
BinMaster, Div Garner Industries
Festo Corp
First Sensor
GE Sensing & Inspection Technologies
GEA Tuuchenhagen North America
Honeywell, Industrial Measurement & Controls Div
IFM Efector
MKS Instruments
Nicholson Steam Trap, Div Circor Intl
Omega Engineering
Palmer Wahl
Temperature Products
Pyrometer Instrument Co, PMA Process Control Div
RJM Sales
Rockwell Automation
Siemens Process Industries + Drives
Two Dimensional Instruments
Viatran
WIKa Instrument Corp
Yokogawa Corp of America

PRESSURE VESSELS AND TANKS

3V TECH USA
A&B Process Systems, JBT Corp
Allegheny Bradford Corp, Corporate
American Alloy Fabricators
ARCHON Industries
Areo Power Tanks LLC
Artisan Industries
B&P Littleford
Bergen Industrial Supply Co
BHS-Filtration
Briggs of Burton
Buchiglas USA
Charles Ross & Son Co
Chem Flowtronics
Custom Powder Systems. The Containment Co
DCI-Biolafitte
De Dietrich Process Systems
Detectable Materials
Eagle Stainless Container
Federal Equipment Co
Goyen Valve LLC, Pentair Environmental Systems
HealthStar
Indco
International Process Plants IPP
JLS Intl
Jongia USA
Lee Industries, Process Systems & Equipment/
Fluid Transfer Div

Niles Steel Tank
Notch Mechanical Constructors
Olsa USA
Oseco
Pfaudler
Process Tek
Ryan Herco Flow Solutions
Scott Medical Products
Stainless Fabrication
Thar Process
The ChemPro Group
Westfield Sheet Metal Works

PROCESS CONTROL INSTRUMENTATION

ABB, Process Automation Div
Acromag
Anderson-Negele
Applied Analytics
Ashcroft
Automation Products, Dynatrol®
Beamex
Bergen Industrial Supply Co
BinMaster, Div Garner Industries
BLH Nobel, Vishay Transducers
Buchiglas USA
Charles River, Microbial Solutions
Chromalox
Cosense
Custom Heat LLC
De Dietrich Process Systems
El Assocs, Architects & Engineers, PA
ESC, Electrol Specialties Co
ETC, Sterilization Systems
Eurotherm Brand, Invenys Operations
Mgmt
Evaporator Dryer Technologies
Festo Corp
First Sensor
Fluid Air, Spraying Systems Co
FSI Technologies
GEA Tuuchenhagen North America
GEMU Valves
Hidden Analytical
Hoffer Flow Controls
Honeywell, Industrial Measurement & Controls Div
IFM Efector
Isolation Systems
JH Technology
Kistler Morse
Krohne
Lee Industries, Process Systems & Equipment/
Fluid Transfer Div
LJ Star
LT Industries
Metrohm USA
MKS Instruments
moisttech
Neutronics
Niagara Meters
Nicholson Steam Trap, Div Circor Intl
Norman N Axelrod
Assocs, Optical Sensing & Control Systems
Development Div
Olsa USA
Omega Engineering
Process Tek
Pyrometer Instrument Co, PMA Process Control Div
RJM Sales
Rotronic

Sensor Electronics Corp
Siemens Process Industries + Drives
Sierra Instruments
SMI
SPEC Process Engineering & Construction
tec5usa
TMI USA
Uehling Instrument Co
Vac-U-Max
Viatran
WAGO Corp
Walchem IWAKI America
WIKa Instrument Corp
Yokogawa Corp of America

PROCESS CONTROL SYSTEMS (SEE ALSO INFORMATION TECHNOLOGIES SECTION)

A&B Process Systems, JBT Corp
Acromag
AGR Intl
Automation Products, Dynatrol®
Beamex
Briggs of Burton
Budzar Industries
Charles Ross & Son Co
Custom Heat LLC
Evaporator Dryer Technologies
Fluid Air, Spraying Systems Co
FSI Technologies
Kistler Morse
LT Industries
Metrohm USA
Mettler Toledo PCE, Product Inspection
moisttech
Mokon
Newson Gale
Niagara Meters
Norman N Axelrod
Assocs, Optical Sensing & Control Systems
Development Div
Olsa USA
Rockwell Automation
Ruland Engineering & Consulting GmbH
Siemens Process Industries + Drives
Sierra Instruments
SMI
Spiroflow Systems
SPX Flow
The Rovisys Co
Vac-U-Max

PROCESS DEVELOPMENT/ OPTIMIZATION (SEE ALSO INFORMATION TECHNOLOGIES SECTION)
3V TECH USA
Artisan Industries
Aspect Automation
BIOQUELL, Life Sciences
El Assocs, Architects & Engineers, PA
EPCOT Intl
Freeman Technology
GEA Process Engineering, GEA Pharma Systems
Mettler Toledo PCE, Product Inspection
MicroThermics
NETZSCH Premier Technologies LLC,
Grinding & Dispersing
Olsa USA

Allegheny Bradford Corporation

P.O. Box 200
Bradford, PA 16701

TELEPHONE
814.362.2590

FAX
814.362.4674

E-MAIL
sales@
alleghenybradford.com

WEBSITE
www.alleghenybradford.
com

NUMBER OF EMPLOYEES
249

DATE FOUNDED
1962

MANUFACTURING Equipment and Supplies



Allegheny Bradford Corporation

Company Description

Allegheny Bradford has built a reputation for excellence in manufacturing equipment of the highest quality for sanitary applications such as: heat exchangers, filter housings, tanks, vessels, process systems, and custom fabrications in stainless steel and high nickel alloys. Certifications and standards compliance include: ASME U, UM, and BPE, R stamp, NB, CE, 3-A, GMP, MOM, and TEMA. Our precision-engineered equipment sets the standard for quality and performance, so your project is finished on time and within budget.

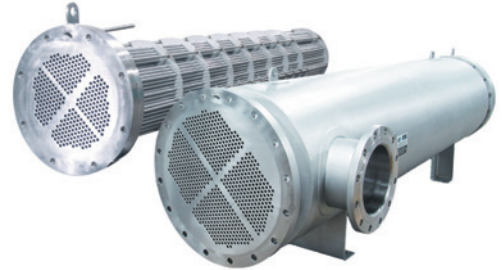
Technical Services

Allegheny Bradford has an unsurpassed quality assurance program and stringent quality standards. Our inspectors possess level II SNT-TC-1A visual and dye penetrant inspection certification. This allows them to inspect every product in production and perform meticulous final inspections. Allegheny Bradford has an AWS-certified weld inspector and associate weld inspector, as well as an AWS-certified welding educator. We offer a variety of testing services:

- Hydrostatic pressure testing
- Dye penetration examination
- Radiography
- Steam testing
- Saline testing
- Boroscope inspection
- Positive material identification (PMI)
- Riboflavin testing & acceptance
- Ferrite testing
- Drainage testing
- Helium leak detection testing
- Profilometer readings
- Fiber optic, borescopic tube inspection
- Videotaping of product contact surfaces
- Computer-verified performance
- Ultrasonic testing

Facilities

Allegheny Bradford has two manufacturing facilities. The Lincoln Drive 50,000-square-foot facility provides stainless steel tanks and modular process systems including depth filtration systems, WFI distribution



systems, WFI POU systems, in-line dilution systems, tempered WFI systems, bio-waste decontamination systems, and more. With a crane having 30 feet under the hook and 20-ton capacity, the facility houses state-of-the-art manufacturing equipment, dedicated FAT rooms, and FAT utilities. The South Avenue facility provides stainless steel filter housings and heat exchangers.

Major Products/Services

ABC is recognized as the leading manufacturer of the highest quality products such as:

- U-tube, straight-tube or coil shell and tube heat exchangers
- Universal Series® single-round and multi-round filter housings
- Opti-Clean® multi-round and Opti-Clean S® single-round filter housings
- Stainless steel tanks and vessels, including fermenters and bioreactors
- Modular process systems
- WFI point-of-use/sampling systems
- Custom fabrications
- Manifolds

Markets Served

Allegheny Bradford's products meet or exceed the requirements of sanitary applications for the pharmaceutical and biotechnology industries.



For vendor contact information, see Company Directory section.

Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Rockwell Automation
Ruland Engineering &
Consulting GmbH
Siemens Process
Industries + Drives
SMI
SPX Flow
Tunnell Consulting

PROCESS MANAGEMENT SYSTEMS

ABB, Process
Automation Div
AGR Intl
Beamex
Charles River,
Microbial Solutions
El Assocs, Architects &
Engineers, PA
EPCOT Intl
Eurotherm Brand,
Invensys Operations
Mgmt
Fluid Energy Processing
& Equipment
GE Sensing & Inspection
Technologies
GEA Process
Engineering, GEA
Pharma Systems

ICONICS
Rockwell Automation
Siemens Process
Industries + Drives
Sierra Instruments
SPEC Process
Engineering &
Construction
Vac-U-Max
Yokogawa Corp
of America

PROCESS MONITORING (SEE ALSO INFORMATION TECHNOLOGIES SECTION)

Acromag
AGR Intl
Applied Analytics
Automation Products,
Dynatrol®
Azbil North America,
BioVigilant Div
Charles River,
Microbial Solutions
Cosense
Evaporator Dryer
Technologies
FSI Technologies
Hoffer Flow Controls
LT Industries
Mesa Labs
Metrohm USA
moisttech
Pall Corp,
Life Sciences Group
Palmer Wahl
Temperature Products
Rockwell Automation
Sensaphone
Siemens Process
Industries + Drives
Sierra Instruments
SPX Flow
Testo
The Rovisys Co
Viatran

PROCESS VALIDATION (SEE ALSO INFORMATION TECHNOLOGIES SECTION)

BIOQUELL,
Life Sciences
Cold Chain
Technologies

GEA Process
Engineering, GEA
Pharma Systems
Mesa Labs
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
pixon engineering AG
Siemens Process
Industries + Drives
The Rovisys Co
Tunnell Consulting
Vac-U-Max

PRODUCT RECOVERY SYSTEMS, CAPSULE

GEA Process
Engineering, GEA
Pharma Systems
GEA Tuuchenhagen
North America
Nash, by Gardner
Denver
Sepha Ltd

PRODUCT SECURITY

IPS-Integrated Project
Services LLC

PROGRAMMABLE CONTROLLERS

ABB, Process
Automation Div
Acromag
Anderson-Negele
BHS-Filtration
BUCHI Corp
Chromalox
Coperion K-Tron
Festo Corp
Honeywell, Industrial
Measurement &
Controls Div
Omega Engineering
Rockwell Automation
Siemens Process
Industries + Drives
SMI
Spiroflow Systems
The Rovisys Co
Vac-U-Max
WAGO Corp
Walchem IWAKI
America
Yokogawa Corp
of America

PROJECT MANAGEMENT (SEE ALSO INFORMATION TECHNOLOGIES SECTION)

Aspect Automation
AWS Bio-Pharma
Technologies
Best Project Mgmt
Cold Chain
Technologies
Daiichi Jitsugyo
(America),
Pharmaceutical Div
El Assocs, Architects &
Engineers, PA
Evaporator Dryer
Technologies
GEA Process
Engineering, GEA
Pharma Systems
GEMU Valves
Siemens Process
Industries + Drives
Spiroflow Systems
SPX Flow

PULVERIZERS
AC Compacting LLC
Arde Barinco,
Aerjet Rocketdyne
BioSpec Products
F.P.S. Food and Pharma
Systems srl
Fluid Energy Processing
& Equipment
Glen Mills
HealthStar
Hosokawa Micron
Powder Systems
International Process
Plants IPP
Keith Machinery Corp
Kemutec
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Perry Videx LLC
Security Engineered
Machinery

PUMPS, CENTRIFUGAL

Alfa Laval Tank
Equipment
Allegro Industries
Bergen Industrial
Supply Co
Detectable Materials
Fristam Pumps USA
Goulds Pumps,
ITT Corp
HealthStar
Keith Machinery Corp
Met - Pro Global Pump
Solutions - Fybroc
Met-Pro Global Pump
Solutions - Sethco
Omega Engineering
Pulsafeeder /
Unit of IDEX Corp,
Engineered Pump
Operations
Ryan Specialty Valve
Products LLC
Sigma Equipment Corp
SPX Flow
Top Line Process
Equipment Co
Unibloc-Pump,
Flowtech Div
Vantop Pump &
Equipment Corp
Vertiflo Pump Co
Vindum Engineering
Waukesha Cherry-
Burrell, An SPX Flow
Brand, SPX Flow

PUMPS, DIAPHRAGM

Bergen Industrial
Supply Co
BioChem Fluidics
Bioengineering
BioPro Intl
BUCHI Corp
Champion Trading Corp
Cozzoli Machine Co
Detectable Materials
Filamatic, National
Instrument LLC
First Sensor
Fluid Metering
General Lab &
Cleanroom Supply
HealthStar
Ingersoll-Rand,
Compressed Air
Solutions
Intellitech
Keith Machinery Corp
LEYBOLD
Milton Roy Co
Omega Engineering
Pulsafeeder /
Unit of IDEX Corp,
Engineered Pump
Operations
Rockwell Automation
Rubber Fab

Ryan Specialty Valve
Products LLC
SPX Flow
SSI/LabAlliance
Vindum Engineering
Yamada America

PUMPS, HIGH-PRESSURE

Alfa Laval Tank
Equipment
Avestin
Beamex
De Dietrich Process
Systems
Detectable Materials
Fristam Pumps USA
GEA Process
Engineering, GEA
Pharma Systems
Goulds Pumps,
ITT Corp
Integrated Gas Services
ITT Engineered Valves
JLS Intl
Keith Machinery Corp
Milton Roy Co
Nash, by Gardner
Denver
Notch Mechanical
Constructors
Process Tek
Pulsafeeder /
Unit of IDEX Corp,
Engineered Pump
Operations
Rees Scientific
Ryan Specialty Valve
Products LLC
Sci-Con
Spirax Sarco
SSI/LabAlliance
Thar Process
Top Line Process
Equipment Co
Unibloc-Pump,
Flowtech Div
Vac-U-Max
Vantop Pump &
Equipment Corp
Vindum Engineering
Waters Corp, Waters Div
Waukesha Cherry-
Burrell, An SPX Flow
Brand, SPX Flow
Yamada America

PUMPS, MAGNETICALLY COUPLED

Detectable Materials
Federal Equipment Co
Goulds Pumps,
ITT Corp
JLS Intl
Met - Pro Global Pump
Solutions - Fybroc
Met-Pro Global Pump
Solutions - Sethco
Nash, by Gardner
Denver
Pulsafeeder /
Unit of IDEX Corp,
Engineered Pump
Operations
Thomas Scientific
Top Line Process
Equipment Co
Vantop Pump &
Equipment Corp

PUMPS, METERING

Ball
BioChem Fluidics
Champion Trading Corp
Cozzoli Machine Co
Detectable Materials
Federal Equipment Co
Filamatic, National
Instrument LLC
Fluid Metering
Fristam Pumps USA

GoatThroat Pumps,
Pumps & Systems
Intellitech
IVEK Corp
JLS Intl
Kaps-All Packaging
Systems
Keith Machinery Corp
Milton Roy Co
Omega Engineering
Oyster Bay Pump Works
Plast-O-Matic Valves
Process Tek
Pulsafeeder /
Unit of IDEX Corp,
Engineered Pump
Operations
Rockwell Automation
Sensaphone
SPX Flow
SSI/LabAlliance
Unibloc-Pump,
Flowtech Div
Vantop Pump &
Equipment Corp
Vindum Engineering
Walchem IWAKI
America
Waukesha Cherry-
Burrell, An SPX Flow
Brand, SPX Flow

PUMPS, MOTOR SPEED CONTROLS

Alfa Laval Tank
Equipment
Bergen Industrial
Supply Co
Goulds Pumps,
ITT Corp
IVEK Corp
JLS Intl
Keith Machinery Corp
Oyster Bay Pump Works
Pulsafeeder /
Unit of IDEX Corp,
Engineered Pump
Operations
SPX Flow
Top Line Process
Equipment Co
Unibloc-Pump,
Flowtech Div
Vantop Pump &
Equipment Corp
Waukesha Cherry-
Burrell, An SPX Flow
Brand, SPX Flow

PUMPS, MULTISTAGE CENTRIFUGAL

Detectable Materials
Federal Equipment Co
Equipment
Bergen Industrial
Supply Co
Detectable Materials
Fristam Pumps USA
Goulds Pumps,
ITT Corp
Ryan Specialty Valve
Products LLC
SPX Flow
Top Line Process
Equipment Co
Unibloc-Pump,
Flowtech Div
Vantop Pump &
Equipment Corp
Waukesha Cherry-
Burrell, An SPX Flow
Brand, SPX Flow

PUMPS, PERISTALTIC

Bausch Advanced
Technologies
Capmatic Ltd
Champion Trading Corp
Detectable Materials
Federal Equipment Co
Filamatic, National
Instrument LLC

Fluid Metering
Glen Mills
groninger USA L.L.C
Integrated Packaging
Systems
Keith Machinery Corp
Modular Packaging
Systems
Omega Engineering
Optima Machinery Corp
Oyster Bay Pump Works
Pulsafeeder /
Unit of IDEX Corp,
Engineered Pump
Operations
QualiTru Sampling
Systems
Unibloc-Pump,
Flowtech Div
Vantop Pump &
Equipment Corp
Victor Intl Mktg
Vindum Engineering
Wheaton Industries,
Wheaton Science
Packaging

PUMPS, PORTABLE

Bausch Advanced
Technologies
Beamex
Bel-Art Products
Detectable Materials
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Federal Equipment Co
Fluid Metering
Fristam Pumps USA
GoatThroat Pumps,
Pumps & Systems
Goulds Pumps,
ITT Corp
HealthStar
Intellitech
JLS Intl
Keith Machinery Corp
Met-Pro Global Pump
Solutions - Sethco
Omega Engineering
Oyster Bay Pump Works
Piab
Pulsafeeder /
Unit of IDEX Corp,
Engineered Pump
Operations
QualiTru Sampling
Systems
SPX Flow
Thomas Scientific
Top Line Process
Equipment Co
Unibloc-Pump,
Flowtech Div
Vantop Pump &
Equipment Corp
Vindum Engineering
Waukesha Cherry-
Burrell, An SPX Flow
Brand, SPX Flow
Yamada America

PUMPS, PROPORTIONING

Detectable Materials
Filamatic, National
Instrument LLC
Fluid Metering
Fristam Pumps USA
IVEK Corp
Keith Machinery Corp
Omega Engineering
Oyster Bay Pump Works
Pulsafeeder /
Unit of IDEX Corp,
Engineered Pump
Operations
Rockwell Automation
SPX Flow
Vindum Engineering

PUMPS, RECIPROCATING

Filamatic, National Instrument LLC
Fluid Metering
Fristam Pumps USA
IVEK Corp
Keith Machinery Corp
Milton Roy Co
Oyster Bay Pump Works
Pulsafeeder / Unit of IDEX Corp, Engineered Pump Operations
SPX Flow
SSI/LabAlliance
Thar Process
Vindum Engineering

PUMPS, ROTARY GEAR

Alfa Laval Tank Equipment
Bergen Industrial Supply Co
Federal Equipment Co
JLS Intl
Kaps-All Packaging Systems
Keith Machinery Corp
Oyster Bay Pump Works
Pulsafeeder / Unit of IDEX Corp, Engineered Pump Operations
Sigma Equipment Corp
Unibloc-Pump, Flowtech Div
Waukesha Cherry-Burrell, An SPX Flow Brand, SPX Flow

PUMPS, SANITARY 3-A DEPT. OF AGRICULTURE

Alfa Laval Tank Equipment
Bergen Industrial Supply Co
Detectable Materials
Federal Equipment Co
Fluid Metering
Fristam Pumps USA
GEA Process Engineering, GEA Pharma Systems
IVEK Corp
Milton Roy Co
Oyster Bay Pump Works
Process Tek
Pulsafeeder / Unit of IDEX Corp, Engineered Pump Operations
Ryan Specialty Valve Products LLC
SPX Flow
Top Line Process Equipment Co
Unibloc-Pump, Flowtech Div
Vac-U-Max
Vanton Pump & Equipment Corp
Waukesha Cherry-Burrell, An SPX Flow Brand, SPX Flow

PUMPS, SINGLE-STAGE CENTRIFUGAL

Alfa Laval Tank Equipment
Bergen Industrial Supply Co
Detectable Materials
Federal Equipment Co
Fristam Pumps USA
Goulds Pumps, ITT Corp
Keith Machinery Corp
Met - Pro Global Pump Solutions - Fybroc

Met-Pro Global Pump Solutions - Sethco
Pulsafeeder / Unit of IDEX Corp, Engineered Pump Operations
Ryan Specialty Valve Products LLC
SPX Flow
Top Line Process Equipment Co
Unibloc-Pump, Flowtech Div
Vanton Pump & Equipment Corp
Veriflo Pump Co
Waukesha Cherry-Burrell, An SPX Flow Brand, SPX Flow

PUMPS, STEAM JET EJECTOR

Federal Equipment Co
Fristam Pumps USA
JLS Intl
Nash, by Gardner Denver
Schutte & Koerting
Wintek Corp

PUMPS, VACUUM

Alfa Laval Tank Equipment
Beamex
Blower Engineering
BUCHI Corp
Champion Trading Corp
De Dietrich Process Systems
Elmo Rietschle Products, Industrial Products Group
EMD Millipore, A Div of Merck KGaA Darmstadt Germany
EXAIR Corp
Federal Equipment Co
Fristam Pumps USA
HealthStar
IKA Works, Lab, Analytical and Process Equipment
Ingersoll-Rand, Compressed Air Solutions
Integrated Gas Services
Intellitech
JLS Intl
Keith Machinery Corp
Kimble Chase, Life Sciences & Research
LEYBOLD
MassVac
MEECO
Myers Vacuum Repair Services
Nash, by Gardner Denver
Pfeiffer Vacuum
Piab
Schutte & Koerting
Thomas Scientific
Vac-U-Max
Wintek Corp

PUMPS, VERTICAL TURBINE

Goulds Pumps, ITT Corp
Met - Pro Global Pump Solutions - Fybroc

PUNCH AND DIE POLISHING BRUSHES AND MACHINES

Elizabeth Carbide Die Co
GCA Products
Keith Machinery Corp
Natoli Engineering Co

PUNCH INSPECTION SYSTEMS

FSI Technologies
Natoli Engineering Co

PUNCH OR DIE MAINTENANCE TRAINING OR AUDIT

Elizabeth Carbide Die Co
Fette Compacting America
.....
Natoli Engineering Co
636-926-8900
fax 636-926-8910
info@natoli.com
www.natoli.com
See ad on page 37
.....

PUNCH OR DIE POLISHING MACHINES

Elizabeth Carbide Die Co
GCA Products
Natoli Engineering Co

PUNCH OR DIE RESOURCES

Elizabeth Carbide Die Co
Fette Compacting America
Natoli Engineering Co

PUNCH OR DIE TROUBLESHOOTING

Elizabeth Carbide Die Co
Natoli Engineering Co

PUNCHES AND DIES

ACG North America LLC
Beamalloy Technologies LLC
Elizabeth Carbide Die Co
Fette Compacting America
GCA Products
IMA North America
.....
Natoli Engineering Co
636-926-8900
fax 636-926-8910
info@natoli.com
www.natoli.com
See ad on page 37
.....

QUALITY ASSURANCE EQUIPMENT

AC Compacting LLC
Anton PAAR USA
Artel
ATAGO USA
ATS RheoSystems, Cannon Instrument Co
Beamex
Caliper Life Sciences
Celsis, Analytical Services Div
Charles River, Microbial Solutions
Cygnus Technologies
Daiichi Jitsugyo (America), Pharmaceutical Div
E Instruments Intl
Fortress Technology
GE Sensing & Inspection Technologies
Global Vision
ISRA Surface Vision
Konica Minolta Sensing Americas
LT Industries
Mecmesin Corp

Mettler Toledo PCE, Product Inspection
Mettler-Toledo
Hi-Speed, Product Inspection
Mettler-Toledo Safeline, Product Inspection
Norman N Axelrod Assocs, Optical Sensing & Control Systems
Development Div
Process Tek
Proditec
RAM Optical Instrumentation (RAM)
Rapid Micro Biosystems
Rees Scientific
Rockwell Automation
Sensitech
Siemens Process Industries + Drives
Sotax Corp
SSE Technologies
Teledyne DALSA

REACTORS

3V TECH USA
A&B Process Systems, JBT Corp
ABEC
ADI Systems, An Evoqua Brand
Allegheny Bradford Corp, Corporate
American Alloy Fabricators
AWS Bio-Pharma Technologies
B&P Littleford
Buchiglas USA
Charles Ross & Son Co
Chem Flowtronics
Chemical Transfer Partnership Corp, (CTP Corp)
De Dietrich Process Systems
Draiswerke
Federal Equipment Co
Feldmeier Equipment
Hidden Analytical
IKA Works, Lab, Analytical and Process Equipment
International Process
Plants IPP
JLS Intl
Jongia USA
Keith Machinery Corp
Lee Industries, Process Systems & Equipment/
Fluid Transfer Div
Lightnin, An SPX Brand, SPX Flow Technology
Magna-Safe Intl
Milestone
Olsa USA
Perry Videx LLC
Pfaudler
Stainless Fabrication
Thar Process

RECORDERS

Carltext
Eurotherm Brand, Invensys Operations
Mgmt
GE Sensing & Inspection Technologies
Honeywell, Industrial Measurement & Controls Div
Mesa Labs
Omega Engineering
Palmer Wahl
Temperature Products
Pyrometer Instrument Co, PMA Process Control Div
Rockwell Automation

Sci-Con
Sensitech
Yokogawa Corp of America

REFRIGERANT PACKS

Cold Chain Technologies
Mycoscience

REFRIGERATION EQUIPMENT

Bahnsen Environmental Specialties, An EMCOR Co
CARON Products Services
Federal Equipment Co
International Process Plants IPP
Mycoscience
Parameter Generation & Control
Powers Scientific
Scientific Industries
Sensaphone
So-Low Environmental Equipment Co
TRS Containers

RELEASE LINERS, PAPER AND FILM, SILICONE-COATED

Adhesives Research
Chemsultants Intl
Reiss Mfg, Ronsil
Rubber & Kentron
Plastics Div

RESPIRATORS

Allegro Industries

RIGID OUTER CONTAINERS (FOR SINGLE-USE BIOCONTAINERS DEPLOYMENT)

Terracon Corp

ROBOTS

Anorad, Rockwell Automation
Caliper Life Sciences
Clear Automation
groninger USA L.L.C
Omni Intl
Rockwell Automation
Sproflow Systems
Stäubli, Robotics

ROLLER COMPACTORS

Alexanderwerk
CMS Compacting
Fitzpatrick Co
Freund-Vector Corp
Hosokawa Micron Powder Systems
LB Bohle LLC
Mendel Co
Nicos Group
SMI

RUBBER COMPONENTS AND PARTS

AdvantaPure
Consolidated Polymer Technologies
G-M-I
Liftomatic Material Handling
Pawling Engineered Products
Praxair
Reiss Mfg, Ronsil
Rubber & Kentron
Plastics Div
Rubber Fab

RUPTURE DISK HOLDERS

Bergen Industrial Supply Co
Oseco
Rubber Fab

RUPTURE DISKS (SEE ALSO EXPLOSION PROTECTION EQUIPMENT)

Oseco
Rubber Fab

RUPTURE PANELS (SEE ALSO EXPLOSION PROTECTION EQUIPMENT)

Oseco

SAMPLING DEVICES, BULK POWDER

Bel-Art Products
De Dietrich Process Systems
F.P.S. Food and Pharma Systems srl
Glen Mills
GMP Systems
Jaygo
Piab
Process Tek
Quantachrome
Instruments
Ryan Specialty Valve Products LLC
Sentry Equipment
Verder Scientific, North America
WL Gore & Assocs, Gore PharmBIO Products

SANITARY CONTAINERS, STAINLESS STEEL

A&B Process Systems, JBT Corp
Bergen Industrial Supply Co
Briggs of Burton
Chem Flowtronics
CMW Stainless
Custom Powder Systems. The Containment Co
Eagle Stainless Container
GMP Systems
JLS Intl
Lee Industries, Process Systems & Equipment/
Fluid Transfer Div
METO Corp
Process Solutions
Vac-U-Max
Westfield Sheet Metal Works

SANITARY SAMPLING PARTS

3V TECH USA
Advanced Scientific
Bergen Industrial Supply Co
BioPro Intl
Chem Flowtronics
GMP Systems
Jaygo
JLS Intl
Process Tek
QualiTru Sampling Systems
Rubber Fab
Sentry Equipment
Top Line Process Equipment Co
WL Gore & Assocs, Gore PharmBIO Products

For vendor contact information, see Company Directory section.

SCALES

APD Systems
Atlantic Scale Co
Batching Systems
BLH Nobel, Vishay
Transducers
Denver Instrument
Edgeco
Fairbanks Scales
Gilson Co
GMP Systems
Kistler Morse
Liftomatic Material
Handling
Mettler-Toledo
Hi-Speed, Product
Inspection
Rockwell Automation
Sartorius Stedim
North America
Schenck Process
Scientech
Thomas Scientific
Wipotec Technology
North America
WIPOTEC-OCS

SCALES, CALIBRATION

Alfa Laval Tank
Equipment
Atlantic Scale Co
Denver Instrument
Fairbanks Scales
GMP Systems
Mettler-Toledo
Hi-Speed, Product
Inspection
Sartorius Stedim
North America
Scientech
WIPOTEC-OCS

SCREENING

Allgaier/McLanahan
Corp
Celsis, Analytical
Services Div
DelStar Technologies
ERIEZ, HQ
Gilson Co
Glen Mills
JLS Intl
Kason Corp
Kemutec
Minox/Elcan
Perry Videx LLC
Rubber Fab
Russell Finex
Servolift
SWECO

SCRUBBERS, FUME

Bionomic Industries
BOC, A member of
The Linde Group
BUCHI Corp
Buchiglas USA
Evaporator Dryer
Technologies
HEMCO Corp
International Process
Plants IPP
Keith Machinery Corp
Schutte & Koerting

SEALS

Chem Flowtronics
G-M-I
MECO Seal
WIPOTEC-OCS

SECURITY, BRAND PROTECTION

CustomVault
Micro-Tracers
NovaVision
Omega Design Corp
SSE Technologies
WIPOTEC-OCS

SEPARATIONS, CHIRAL, PRODUCTION/ PREPARATIVE SCALE

Alfa Laval Tank
Equipment
BUCHI Corp
Waters Corp, Waters Div

SEPARATORS, LIQUID-LIQUID

Alfa Laval Tank
Equipment
Buchiglas USA
Chem Flowtronics
De Dietrich Process
Systems
International Process
Plants IPP
Keith Machinery Corp
Kyte Centrifuge Sales &
Consulting
Membrana
Minox/Elcan
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Robatel
The ChemPro Group
Waters Corp, Waters Div
Western States
Machine Co
Wintek Corp

SEPARATORS, SOLIDS-LIQUID

Alfa Laval Tank
Equipment
BHS-Filtration
BUCHI Corp
Chem Flowtronics
De Dietrich Process
Systems
International Process
Plants IPP
Kason Corp
Keith Machinery Corp
Komline-Sanderson
Kyte Centrifuge Sales &
Consulting
Minox/Elcan
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Robatel
Russell Finex
Sefar
Steadfast Equipment
SWECO
Thar Process
Western States
Machine Co

SFC SYSTEMS

JASCO
Thar Process
Waters Corp, Waters Div

SFE SYSTEMS

JASCO
Thar Process
Waters Corp, Waters Div

SHAFT SEALS

Chem Flowtronics
GMP Systems

SHREDDERS

Alexanderwerk
BOC, A member of
The Linde Group
Franklin Miller
Glen Mills
Keith Machinery Corp
S&G Enterprises
Security Engineered
Machinery
Urschel

SIEVE SHAKERS

Kemutec
SWECO
Verder Scientific,
North America

SIEVES

Bel-Art Products
Bopp USA
Glen Mills
HealthStar
Hosokawa Micron
Powder Systems
Kason Corp
Keith Machinery Corp
Kemutec
LB Bohle LLC
Minox/Elcan
MO Industries
Perfex Corp
Powdersize
Rubber Fab
Russell Finex
Sancilio & Co
Servolift
SWECO
Verder Scientific,
North America
Whirlwind Engineering

SIFTERS

Allgaier/McLanahan
Corp
Glatt Air Techniques
Glen Mills
HealthStar
Kason Corp
Keith Machinery Corp
Kemutec
LB Bohle LLC
Minox/Elcan
MO Industries
Rubber Fab
Russell Finex
Sancilio & Co
Servolift
SWECO
Whirlwind Engineering

SIGHT GAUGES

ARCHON Industries
Bergen Industrial
Supply Co
Chem Flowtronics
Detectable Materials
LJ Star
Plast-O-Matic Valves
RJM Sales
Rubber Fab
Ryan Specialty Valve
Products LLC
Top Line Process
Equipment Co
Unibloc-Pump,
Flowtech Div

SIGHT GLASSES

ARCHON Industries
Bergen Industrial
Supply Co
Chem Flowtronics
Coperion K-Tron
De Dietrich Process
Systems
Detectable Materials
Evaporator Dryer
Technologies
GEA Tuuchenhagen
North America
LJ Star
Mendel Co
MO Industries
Pfaudler
Plast-O-Matic Valves
RJM Sales
Rubber Fab
Ryan Hero Flow
Solutions
Ryan Specialty Valve
Products LLC
Top Line Process
Equipment Co

Unibloc-Pump,
Flowtech Div
Vision USA,
a Dentrex Co

SILOS, BULK STORAGE

Coperion K-Tron
DCI
DCI-Biolafitte
Diamondback
Technology
Federal Equipment Co
Feldmeier Equipment
Jenike & Johanson
Kistler Morse
MO Industries

SINKS, STAINLESS

Edgeco
Getinge USA,
Life Science
Kewaunee Scientific
Corp

SIZE REDUCTION MACHINES

AC Compacting LLC
Alexanderwerk
Arde Barinco,
Aerojet Rocketdyne
B&P Littleford
BEE Intl
Bematek Systems
Draiswerke
F.P.S. Food and Pharma
Systems srl
Federal Equipment Co
Fitzpatrick Co
Fluid Air, Spraying
Systems Co
Fluid Energy Processing
& Equipment
Franklin Miller
Glen Mills
Hosokawa Micron
Powder Systems
International Process
Plants IPP
Jaygo
Keith Machinery Corp
Kemutec
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Div
Microfluidics
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Olsa USA
Powdersize
Security Engineered
Machinery
Servolift
Sturtevant
The Jet Pulverizer Co
Urschel
Verder Scientific,
North America
Wyssmont Co

SOFT-GEL MANUFACTURING SUPPLIES

CMS Technologies
Molded Fiber Glass
Tray Co
Olsa USA

SOLVENT RECOVERY SYSTEMS, ACTIVATED-CARBON ADSORPTION

3V TECH USA
Anguil Environmental
Systems
CECO Environmental
International Process
Plants IPP
Olsa USA
Praxair
Wintek Corp

SOLVENT RECOVERY SYSTEMS, DISTILLATION

Artisan Industries
B&P Littleford
BUCHI Corp
Chemical Transfer
Partnership Corp,
(CTP Corp)
De Dietrich Process
Systems
GEMCO
International Process
Plants IPP
JLS Intl
Kimble Chase, Life
Sciences & Research
Nash, by Gardner
Denver
NexGen Enviro Systems
Olsa USA
Perry Videx LLC
Pfaudler
Praxair
The ChemPro Group
Wintek Corp

SOLVENT RECOVERY SYSTEMS, MEMBRANE

3V TECH USA
Artisan Industries
GEA Process
Engineering, GEA
Pharma Systems
International Process
Plants IPP
JLS Intl
Kimble Chase, Life
Sciences & Research
Olsa USA
The ChemPro Group
Wintek Corp

SOP DEVELOPMENT (SEE ALSO INFORMATION TECHNOLOGIES SECTION)

Rockwell Automation
Siemens Process
Industries + Drives

SPARGERS

Chem Flowtronics
Kimble Chase, Life
Sciences & Research
Mott Corp
Pfaudler
Pick Heaters
Schutte & Koerting

SPHERONIZATION MACHINERY

AC Compacting LLC
Freund-Vector Corp
GEA Process
Engineering, GEA
Pharma Systems
Mendel Co

SPRAY DRYING EQUIPMENT

AC Compacting LLC
En'Urga
Evaporator Dryer
Technologies
Fluid Air, Spraying
Systems Co
Freund-Vector Corp
GCA Products
Komline-Sanderson
ProCePT

SPRAY NOZZLES

ARCHON Industries
Bergen Industrial
Supply Co
BioPro Intl
BUCHI Corp
En'Urga

ESC, Electrol
Specialties Co
Evaporator Dryer
Technologies
Fluid Air, Spraying
Systems Co
GCA Products
GEA Process
Engineering, GEA
Pharma Systems
GEA Tuuchenhagen
North America
HealthStar
Isolation Systems
IVEK Corp
Rubber Fab
Sonics & Materials
Strahman Valves

STATISTICAL ANALYSIS (SEE ALSO INFORMATION TECHNOLOGIES SECTION) Minitab

STERILANTS, LIQUID

Clordisys Solutions
Decon Labs

STERILE AIR FILTERS

Buffalo Filter
Domnick microBAN
Isolation Systems
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Praxair

STERILE STORAGE UNITS

Hurst Corp
Process Tek
Ruland Engineering &
Consulting GmbH

STERILITY ASSURANCE PACKAGING AND SUPPLIES

General Econopak
Process Tek
Rapid Micro Biosystems

STERILITY INDICATORS

BIOQUELL,
Life Sciences
Getinge USA,
Life Science
Mesa Labs
Optima Machinery Corp

STERILIZATION INDICATOR LABELS

ITW Texwipe
Mesa Labs

STERILIZER CONTROLS, AUTOCLAVE

Belimed, Scientific Div
Consolidated Stills
Sterilizers
ETC, Sterilization
Systems
Getinge USA,
Life Science
HealthStar
JLS Intl
Nicos Group
Robert Bosch Packaging
Technology,
Pharmaceutical
Operations
TMI USA

STERILIZERS, AUTOCLAVE

AWS Bio-Pharma Technologies
B&P Littleford
Belimed, Scientific Div
BioPro Intl
Caritex
Consolidated Stills Sterilizers
EquipNet
ESCO Technologies, Esco Pharma Factory
ETC, Sterilization Systems
Getinge USA, Life Science
Kinematica
McGill AirPressure LLC
Molded Fiber Glass Tray Co
Nicos Group
Tuttinauer USA Co Ltd, Lab & Scientific Div
Victor Intl Mktg

STERILIZERS, CO₂

Despatch - ITW EAE, Div of Illinois Tool Works
Robert Bosch Packaging Technology, Pharmaceutical Operations

STERILIZERS, DRY HEAT, ELECTRIC

Despatch - ITW EAE, Div of Illinois Tool Works
EquipNet
Inotech Bioscience LLC
Nicos Group
Optima Machinery Corp
Plink GmbH
Thermosysteme
TPS
Victor Intl Mktg

STERILIZERS, DRY HEAT, GAS

Despatch - ITW EAE, Div of Illinois Tool Works
EquipNet
ETC, Sterilization Systems
Nicos Group
Optima Machinery Corp
Robert Bosch Packaging Technology, Pharmaceutical Operations

STERILIZERS, GAS (CHLORINE OXIDE)

Clordisys Solutions
EquipNet

STERILIZERS, GAS (ETO)

Clordisys Solutions
Despatch - ITW EAE, Div of Illinois Tool Works
EquipNet
ETC, Sterilization Systems
Getinge USA, Life Science
Molded Fiber Glass Tray Co
Nicos Group
Optima Machinery Corp
Robert Bosch Packaging Technology, Pharmaceutical Operations
Sensor Electronics Corp

STERILIZERS, IONIZING RADIATION

Molded Fiber Glass Tray Co
Optima Machinery Corp
Process Tek

STERILIZERS, MEMBRANE FILTRATION

3M Co, 3M Separation and Purification Sciences
Pall Corp, Life Sciences Group
Pall Life Sciences, Biopharmaceuticals
Process Tek

STERILIZERS, OZONE GENERATION

Process Tek
Xylem Services GmbH

STERILIZERS, SUBMICRON

3M Co, 3M Separation and Purification Sciences
BEE Intl
Pall Corp, Life Sciences Group
Pall Life Sciences, Biopharmaceuticals
Process Tek

STERILIZERS, TWO-STAGE FILTRATION

Pall Corp, Life Sciences Group
Pall Life Sciences, Biopharmaceuticals

STERILIZERS, UV RADIATION

Clordisys Solutions
Molded Fiber Glass Tray Co
Xenon Corp
Xylem Services GmbH

STERILIZING TUNNELS

AWS Bio-Pharma Technologies
Clordisys Solutions
Cozzoli Machine Co
ESCO Technologies, Esco Pharma Factory
F.P.S. Food and Pharma Systems srl
groninger USA L.L.C
MAR Machine Automatische Riepmatrici SPA
Optima Machinery Corp
PennTech Machinery Corp
Romaco North American
Shibuya Hoppmann Corp

STILLS

3V TECH USA
AWS Bio-Pharma Technologies
Chemical Transfer Partnership Corp, (CTP Corp)
Consolidated Stills Sterilizers
General Lab & Cleanroom Supply
Getinge USA, Life Science
GMP Systems
International Process Plants IPP

Kimble Chase, Life Sciences & Research
NexGen Enviro Systems
Perry Videx LLC
Stilmas USA

STIRRERS (AGITATORS)

3V TECH USA
Arde Barinco, Aerojet Rocketdyne
Bioengineering
BioPro Intl
BioSpec Products
Charles Ross & Son Co
Chem Flowtronics DCI
De Dietrich Process Systems
Glen Mills
Globe Scientific
IKA Works, Lab, Analytical and Process Equipment
Jaygo
JLS Intl
Lee Industries, Process Systems & Equipment/
Fluid Transfer Div
Magna-Safe Intl
Myers Mixers
Omni Intl
PRO Scientific
Silverson Machines

STOPCLOCKS

Kimble Chase, Life Sciences & Research

STOPPER HANDLING EQUIPMENT

Capmatic Ltd
Cozzoli Machine Co
Getinge USA, Life Science
HealthStar
METO Corp
Pharmasystems
Reiss Mfg, Ronsil Rubber & Kentron Plastics Div
Servolift
Shibuya Hoppmann Corp
Victor Intl Mktg

STORAGE EQUIPMENT

Angstrom Supply
Bel-Art Products
Bergen Industrial Supply Co
Custom Powder Systems. The Containment Co
CustomVault
Diamondback Technology
Globe Scientific
HEMCO Corp
InterMetro Industries Corp
Jenike & Johanson
Justrite
Lista Intl Corp
Molded Fiber Glass Tray Co
Parameter Generation & Control
Remcon Plastics
Safety Storage
Servolift
Snyder Industries
TRS Containers

STRAINERS

Bel-Art Products
Bergen Industrial Supply Co
Feldmeier Equipment
GMP Systems

Nicholson Steam Trap, Div Circor Intl
Russell Finex
Steadfast Equipment
Top Line Process Equipment Co
Unibloc-Pump, Flowtech Div
Waukesha Cherry-Burrell, An SPX Flow Brand, SPX Flow
Westfield Sheet Metal Works

STRATEGIC PLANNING (SEE ALSO INFORMATION TECHNOLOGIES SECTION)

Brookfield AMETEK

SUPPLY CHAIN MANAGEMENT (SEE ALSO INFORMATION TECHNOLOGIES SECTION)

Deacom
Inmar
NovaVision
Rockwell Automation
Tunnell Consulting
VAI (Vormittag Assocs)
WIPOTEC-OCS

SUPPOSITORY MACHINES

Key Intl
MG America
Torpac

SUPPOSITORY TESTERS

Texture Technologies Corp

TABLES, STAINLESS

Advance Tabco
Atmos-Tech Industries
GMP Systems
HealthStar
Integrated Packaging Systems
InterMetro Industries Corp
LM Air Technology, Cleanroom & Lab Equipment
Mendel Co
MO Industries
ProMach, Kleenline
Westfield Sheet Metal Works

TABLET DEDUSTERS

AC Compacting LLC
ACG North America LLC
Champion Trading Corp
CroPharm
ERIEZ, HQ
Fette Compacting America
GCA Products
IMA North America
Key Intl
KORSCH America
Kraemer US LLC
MCC-Measurement Control Corp
Mendel Co
Michael Benalt
Natoli Engineering Co
NJM Packaging
Sancilio & Co
Seidenader Maschinenbau GmbH
SMI
Sotax Corp
Vac-U-Max

TABLET FILLING AND COUNTING MACHINES

ACG North America LLC
Batching Systems
Capmatic Ltd
Champion Trading Corp
GCA Products
IMA North America
Integrated Packaging Systems
Key Intl
MagneMotion
MCC-Measurement Control Corp
Mendel Co
Michael Benalt
Modular Packaging Systems
NJM Packaging
R. W. Hartnett Co

TABLET HANDLING EQUIPMENT

AC Compacting LLC
Custom Powder Systems. The Containment Co
Efficient Automated Machine Corp
ERIEZ, HQ
HealthStar
IMA North America
Key Intl
Proditex
Qualicaps
Sancilio & Co
Seidenader Maschinenbau GmbH
Symetix
Vac-U-Max

TABLET HOPPERS

Champion Trading Corp
Custom Powder Systems. The Containment Co
Diamondback Technology
GCA Products
IMA North America
Integrated Containment Systems
Integrated Packaging Systems
Jenike & Johanson
LB Bohle LLC
MCC-Measurement Control Corp
Mendel Co
Nicos Group
NJM Packaging
Palace Packaging Machines
Piab
Process Solutions
R. W. Hartnett Co
Remcon Plastics
Servolift
Symetix
Wilson Tool Intl

TABLET HOPPERS

Champion Trading Corp
Custom Powder Systems. The Containment Co
Diamondback Technology
GCA Products
IMA North America
Integrated Containment Systems
Integrated Packaging Systems
Jenike & Johanson
LB Bohle LLC
MCC-Measurement Control Corp
Mendel Co
Nicos Group
NJM Packaging
Palace Packaging Machines
Process Solutions
R. W. Hartnett Co
Remcon Plastics
Sancilio & Co
Snyder Industries
Vac-U-Max

TABLET PRINTING EQUIPMENT

AC Compacting LLC
Ackley Machine Corp
Control Micro Systems
Daiichi Jitsugyo (America), Pharmaceutical Div
Freund-Vector Corp
Key Intl
Matthews Intl Corp,
Matthews Marking Systems
Michael Benalt
Qualicaps
R. W. Hartnett Co

TABLET SORTERS

AC Compacting LLC
ACG North America LLC
Capmatic Ltd
Champion Trading Corp
Daiichi Jitsugyo (America), Pharmaceutical Div
Driam USA
Efficient Automated Machine Corp
ERIEZ, HQ
HealthStar
IMA North America
Key Intl
Proditex
Qualicaps
Sancilio & Co
Seidenader Maschinenbau GmbH
Symetix
Vac-U-Max

TABLET TESTERS

AC Compacting LLC
Atlantic Scale Co
Distek
Elizabeth Carbide Die Co
Fette Compacting America
Key Intl
Mecmesin Corp
Mettler-Toledo Safeline, Product Inspection
Natoli Engineering Co
Newage Testing Instruments, A Subsidiary of AMETEK
Sotax Corp
Texture Technologies Corp
Wilson Tool Intl

TABLET TOOLING

ACG North America LLC
Beamalloy Technologies LLC
Fette Compacting America
.....
Natoli Engineering Co
636-926-8900
fax 636-926-8910
info@natoli.com
www.natoli.com
See ad on page 37
.....
Sancilio & Co
Wilson Tool Intl

TANK COVERS

Alfa Laval Tank Equipment
FabOhio
GMP Systems
Lee Industries, Process Systems & Equipment/
Fluid Transfer Div
Olsa USA
Remcon Plastics
Terracon Corp

TANK LINERS

GMP Systems
ILC Dover
Olsa USA

TANK SEALS

Chem Flowtronics
G-M-I
GMP Systems
Rubber Fab
Terracon Corp

TANKS, COATED

3V TECH USA
Aero Power Tanks LLC
Black Forest Container
Systems

Charles Ross & Son Co

Coperion K-Tron
Federal Equipment Co
GMP Systems
International Process
Plants IPP

Lee Industries, Process
Systems & Equipment/
Fluid Transfer Div
MKS Instruments
Niles Steel Tank
Olsa USA
Terracon Corp

**TANKS,
FLUOROPOLYMER-
LINED****Charles Ross & Son Co**

GMP Systems
International Process
Plants IPP
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Div
Pfaudler
Ryan Herco Flow
Solutions
Terracon Corp

**TANKS,
GLASS-LINED**

3V TECH USA
ARCHON Industries
Aero Power Tanks LLC
Buchiglas USA
Chem Flowtronics
De Dietrich Process
Systems
Federal Equipment Co
International Process
Plants IPP
Niles Steel Tank
Pfaudler
Ryan Herco Flow
Solutions

TANKS, JACKETED

A&B Process Systems,
JBT Corp
ABEC
**Allegheny Bradford
Corp, Corporate**
American Alloy
Fabricators
Aero Power Tanks LLC
BHS-Filtration
Black Forest Container
Systems
Briggs of Burton
Buchiglas USA
Champion Trading Corp
Chem Flowtronics
DCI
DCI-Biolafitte
De Dietrich Process
Systems
EquipNet
Federal Equipment Co
Feldmeier Equipment
HealthStar
Indco
International Process
Plants IPP
Jaygo
JLS Intl

Keystone Process
Equipment
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Div
MKS Instruments
Myers Mixers
Niles Steel Tank
Notch Mechanical
Constructors
Olsa USA
Pfaudler
Ryan Herco Flow
Solutions
Sartorius Stedim
North America
Stainless Fabrication
Terracon Corp

TANKS, MIXING

3V TECH USA
A&B Process Systems,
JBT Corp
Alfa Laval Tank
Equipment

Allegheny Bradford

Corp, Corporate
American Alloy
Fabricators
Arde Barinco,
Aerojet Rocketdyne
Bel-Art Products
Black Forest Container
Systems
Briggs of Burton
Buchiglas USA
Champion Trading Corp

Charles Ross & Son Co

Chem Flowtronics
DCI
DCI-Biolafitte
Eagle Stainless Container
EquipNet
Federal Equipment Co
Feldmeier Equipment
GEA Process
Engineering, GEA
Pharma Systems
HealthStar
IMA North America
Indco
International Process
Plants IPP

Jaygo
JLS Intl
Keystone Process
Equipment
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Div
Magna-Safe Intl
MECO Seal
Mycoscience
Myers Mixers
Niles Steel Tank
Notch Mechanical
Constructors
Olsa USA
Perry Videx LLC
Pfaudler
Process Solutions
Remcon Plastics
Sartorius Stedim
North America
Snyder Industries
Stainless Fabrication
Terracon Corp

TANKS, PLAIN

A&B Process Systems,
JBT Corp
**Allegheny Bradford
Corp, Corporate**
Aero Power Tanks LLC
Bel-Art Products
Charles Ross & Son Co
Chem Flowtronics
DCI
DCI-Biolafitte
Eagle Stainless Container
EquipNet
Feldmeier Equipment
GMP Systems

For vendor contact information, see Company Directory section.

HealthStar
Indco
International Process
Plants IPP
Jaygo
JLS Intl
Keystone Process
Equipment
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Div
Myers Mixers
Niles Steel Tank
Notch Mechanical
Constructors
Olsa USA
Perry Videx LLC
Process Solutions
Snyder Industries
Stainless Fabrication
Terracon Corp

**TANKS, PRESSURE,
PORTABLE**

A&B Process Systems,
JBT Corp
**Allegheny Bradford
Corp, Corporate**
American Alloy
Fabricators
Bergen Industrial
Supply Co
BHS-Filtration
Black Forest Container
Systems
Buchiglas USA
Charles Ross & Son Co
Chem Flowtronics
DCI
DCI-Biolafitte
De Dietrich Process
Systems
Eagle Stainless Container
EquipNet
Feldmeier Equipment
GMP Systems
HealthStar
Indco
International Process
Plants IPP
JLS Intl
Keystone Process
Equipment

Lee Industries, Process
Systems & Equipment/
Fluid Transfer Div
Mycoscience
Myers Mixers
Notch Mechanical
Constructors
Olsa USA
Perry Videx LLC
Servolift
Stainless Fabrication
Westfield Sheet
Metal Works

**TANKS, STAINLESS
STEEL**

A&B Process Systems,
JBT Corp
ABEC
**Allegheny Bradford
Corp, Corporate**
American Alloy
Fabricators
Aero Power Tanks LLC
Artisan Industries
AWS Bio-Pharma
Technologies
Bergen Industrial
Supply Co
BHS-Filtration
Black Forest Container
Systems
Briggs of Burton
Buchiglas USA
Champion Trading Corp
Charles Ross & Son Co
Chem Flowtronics
Custom Powder
Systems. The
Containment Co

DCI
DCI-Biolafitte
De Dietrich Process
Systems
Driam USA
Eagle Stainless Container
EquipNet
Evaporator Dryer
Technologies
Feldmeier Equipment
GMP Systems
HealthStar
Honeyman Group Ltd
IKA Works,
Lab, Analytical and
Process Equipment
IMA North America
Indco
International Process
Plants IPP
Isolation Systems
Jaygo
JLS Intl
Keystone Process
Equipment
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Div
MKS Instruments
Myers Mixers
Niles Steel Tank
Notch Mechanical
Constructors
Olsa USA
Perry Videx LLC
Pink GmbH
Thermosysteme
Process Solutions
Stainless Fabrication
Westfield Sheet
Metal Works

TANKS, TIN-COATED

Chem Flowtronics
EquipNet
GMP Systems
JLS Intl
Notch Mechanical
Constructors

**TEMPERATURE
CALIBRATION
SYSTEMS**

AMETEK, Sensors,
Test & Calibration
Beamex
Custom Heat LLC
Eurotherm Brand,
Invensys Operations
Mgmt
GE Sensing & Inspection
Technologies
GMP Systems
Julabo USA
Mesa Labs
Omega Engineering
Palmer Wahl
Temperature Products
Parameter Generation &
Control
Thermalcal
WIKA Instrument Corp

**TEMPERATURE
SENSOR FITTINGS**

Acromag
Bergen Industrial
Supply Co
Chromalox
Conax Technologies
Custom Heat LLC
Durex Industries
Eurotherm Brand,
Invensys Operations
Mgmt
GE Sensing & Inspection
Technologies
GEA Tuchenhausen
North America
GMP Systems
IFM Ector
Isolation Systems
Omega Engineering

Palmer Wahl
Temperature Products
Process Tek

**TEMPERATURE
TRANSMITTERS**

ABB, Process
Automation Div
Acromag
Anderson-Negele
Conax Technologies
Custom Heat LLC
Durex Industries
Eurotherm Brand,
Invensys Operations
Mgmt
GMP Systems
Hampshire Controls
Corp
IFM Ector
Isolation Systems
JH Technology
Krohne
Omega Engineering
Palmer Wahl
Temperature Products
Pyrometer Instrument
Co, PMA Process
Control Div
RJM Sales
Sensaphone
Spirax Sarco
Testo
TMI USA
WKA Instrument Corp
Yokogawa Corp
of America

**TESTING
DEVICES, STATIC
ELECTRICITY**

Charles River,
Microbial Solutions
Hirox - USA
Meech Static
Eliminators USA
PlugIn Storage
Systems - PSSI
Simco-Ion, Illinois Tool
Works Co

**TIME-
TEMPERATURE
MONITORS**

Anderson-Negele
Carltext
Eurotherm Brand,
Invensys Operations
Mgmt
GE Sensing & Inspection
Technologies
Sensitech
Siemens Process
Industries + Drives
Testo
TMI USA
Two Dimensional
Instruments

TOC ANALYZERS

Rockwell Automation
Sci-Con
Siemens Process
Industries + Drives
SUEZ (Formerly GE
Analytical Instruments)
TELEDYNE TEKMAR

**TOOLS, STAINLESS
STEEL, STERILE**

Steritool
Tri Tool

**TRANSDERMAL
ADHESIVES**

Adhesives Research
Chemsultants Intl
Daiichi Jitsugyo
(America),
Pharmaceutical Div
DelStar Technologies

Olsa USA
Optima Machinery Corp
Texture Technologies
Corp

**TRANSDERMAL
DRUG DELIVERY**

Adhesives Research
Aveva Drug Delivery
Systems
Ball
Daiichi Jitsugyo
(America),
Pharmaceutical Div
Olsa USA
Optima Machinery Corp
Tapemark

**TRANSDERMAL
FILMS AND LINERS**

Adhesives Research
Daiichi Jitsugyo
(America),
Pharmaceutical Div
DelStar Technologies
Optima Machinery Corp

**TRANSDERMAL
MEMBRANES**

Adhesives Research
DelStar Technologies
WL Gore & Assocs,
Gore PharmBIO
Products

**TRANSMUCOSAL
DRUG DELIVERY
SYSTEMS**

Adhesives Research
Aspect Automation
Aveva Drug Delivery
Systems
Tapemark
WL Gore & Assocs,
Gore PharmBIO
Products

TRAPS, AIR

EquipNet
Ingersoll-Rand,
Compressed Air
Solutions
MassVac
Nicholson Steam Trap,
Div Circor Intl

**TRAPS, CLEAN
STEAM**

Bergen Industrial
Supply Co
EquipNet
GMP Systems
Nicholson Steam Trap,
Div Circor Intl
Spirax Sarco

**TRAY LOADING
EQUIPMENT**

AWS Bio-Pharma
Technologies
Bossar Packaging
Cozzoli Machine Co
Douglas Machine
FP Developments
Garvey Corp
HealthStar
Hurst Corp
IMA North America
ISO Tech Design
MagneMotion
MG America
Molded Fiber Glass
Tray Co
Optima Machinery Corp
PennTech Machinery
Corp
Seidenader
Pharmaceutical Div
Victor Intl Mktg

TRAYS, VIAL AND AMPUL

Bel-Art Products
FP Developments
Garvey Corp
GMP Systems
Hurst Corp
MO Industries
Molded Fiber Glass
Tray Co
Optima Machinery Corp
Wheaton Industries,
Wheaton Science
Packaging

TUBING ASSEMBLIES (SINGLE-USE)

AdvantaPure
GMP Systems
Intellitech

TUBING CONNECTORS

Advanced Scientific
AdvantaPure
Asahi/America
Bel-Art Products
Bergen Industrial
Supply Co
Beswick Engineering Co
Consolidated Polymer
Technologies
CPC -

Colder Products Co
Detectable Materials
EquipNet
Festo Corp
FP Developments
Globe Scientific
GMP Systems
Molex, LLC, Polymicro
Oetiker
Powder-Solutions
RAUMEDIC
Rubber Fab
Ryan Specialty Valve
Products LLC
Sartorius Stedim
North America
SEBRA, Biopharm &
Cellular Therapy
The Spencer Turbine Co
TW Metals
Vindum Engineering
WL Gore & Assocs,
Gore PharmBIO
Products

TUBING, EXTRUSION

AdvantaPure
Consolidated Polymer
Technologies
CPC -
Colder Products Co
Detectable Materials
EquipNet
Flex Products
Fluorotherm Polymers
G-M-I
Pawling Engineered
Products
RAUMEDIC
Rubber Fab
TW Metals
WL Gore & Assocs,
Gore PharmBIO
Products

TUBING, PP

AdvantaPure
Asahi/America
Bergen Industrial
Supply Co
Detectable Materials
EquipNet
Flex Products
G-M-I
GMP Systems
RAUMEDIC

Reiss Mfg, Ronsil
Rubber & Kentron
Plastics Div
Rubber Fab
Ryan Herco Flow
Solutions

TUBING, PTFE

AdvantaPure
Asahi/America
Bel-Art Products
Bergen Industrial
Supply Co
Chem Flowtronics
CPC -
Colder Products Co
Detectable Materials
EquipNet
Fluorotherm Polymers
G-M-I
GMP Systems
Kimble Chase, Life
Sciences & Research
Reiss Mfg, Ronsil
Rubber & Kentron
Plastics Div
Rubber Fab
Ryan Herco Flow
Solutions
Sci-Con
WL Gore & Assocs,
Gore PharmBIO
Products

TUBING, PTFE-LINED STAINLESS STEEL

AdvantaPure
Bergen Industrial
Supply Co
Chem Flowtronics
Detectable Materials
EquipNet
Honeyman Group Ltd
Rubber Fab
Ryan Herco Flow
Solutions
WL Gore & Assocs,
Gore PharmBIO
Products

TUBING, PVC

AdvantaPure
APD Systems
Detectable Materials
EquipNet
Flex Products
G-M-I
RAUMEDIC
Reiss Mfg, Ronsil
Rubber & Kentron
Plastics Div
Rubber Fab
Ryan Herco Flow
Solutions

TUBING, PVDF

Asahi/America
Detectable Materials
EquipNet
Fluorotherm Polymers
Rubber Fab
Ryan Herco Flow
Solutions

TUBING, SANITARY STAINLESS STEEL

AdvantaPure
Alfa Laval Tank
Equipment
APD Systems
Bergen Industrial
Supply Co
Cadence Science
Detectable Materials
EquipNet
Integrated Gas Services
Liburdi Dimetrics Corp
MKS Instruments
Powder-Solutions
RathGibson

Ryan Specialty Valve
Products LLC
The Spencer Turbine Co
Top Line Process
Equipment Co
TW Metals
VNE Corp
Westfield Sheet
Metal Works

TUBING, SILICONE

Advanced Scientific
AdvantaPure
Bergen Industrial
Supply Co
Consolidated Polymer
Technologies
Detectable Materials
EquipNet
G-M-I
Integrated Packaging
Systems
RAUMEDIC
Reiss Mfg, Ronsil
Rubber & Kentron
Plastics Div
Rubber Fab
Top Line Process
Equipment Co
WL Gore & Assocs,
Gore PharmBIO
Products

TUBULAR DECONTAMINATION SYSTEMS

ABC Actini

ULTRAFILTRATION EQUIPMENT

International Process
Plants IPP
LM Air Technology,
Cleanroom & Lab
Equipment
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
SPX Flow

ULTRASONIC CLEANING EQUIPMENT

Branson Ultrasonics
Corp
General Lab &
Cleanroom Supply
Gilson Co
Glen Mills
groninger USA L.L.C
L&R Mfg
Pfizer CentreOne

UNSCRAMBLERS, ROTARY

Capmatic Ltd
Champion Trading Corp
Cozzoli Machine Co
EquipNet
FP Developments
Garvey Corp
groninger USA L.L.C
HealthStar
Integrated Packaging
Systems
Intellitech
Kaps-All Packaging
Systems
Key Intl
New England Machinery
NJM Packaging
Omega Design Corp
Palace Packaging
Machines

UNSCRAMBLERS, STRAIGHT-LINE

Capmatic Ltd
Champion Trading Corp
EquipNet

Garvey Corp
HealthStar
IMA North America
Kaps-All Packaging
Systems
Modular Packaging
Systems
New England Machinery
NJM Packaging
Omega Design Corp
Palace Packaging
Machines

USED MACHINERY AND EQUIPMENT

Bausch Advanced
Technologies
Champion Trading Corp
Cozzoli Machine Co
De Dietrich Process
Systems
Federal Equipment Co
GCA Products
groninger USA L.L.C
HealthStar
Heat Exchange &
Transfer
Hosokawa Micron
Powder Systems
International Process
Plants IPP
Jaygo
Keystone Process
Equipment
Kyte Centrifuge Sales &
Consulting
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Olsa USA
**Robert Bosch Packaging
Technology,
Pharmaceutical
Operations**
Security Engineered
Machinery
Sigma Equipment Corp
Urschel
Wilson Tool Intl
Zed Industries

VACUUM CLEANER BAGS

MEECO
Nilfisk, Industrial
Vacuum Div

VACUUM CLEANERS, INDUSTRIAL

Dycem
EXAIR Corp
MEECO
Natoli Engineering Co
Nilfisk, Industrial
Vacuum Div
The Spencer Turbine Co
Tiger-Vac
Vac-U-Max
Wm. W. Meyer & Sons

VACUUM CONTAINERS

Isolation Systems
MEECO
Vac-U-Max

VACUUM FLUID-BED EQUIPMENT

B&P Littleford
Draiswerke
Federal Equipment Co
GEA Process
Engineering, GEA
Pharma Systems
HealthStar
IMA North America
International Process
Plants IPP
LB Bohle LLC
MEECO

Mendel Co
Servolift
Vac-U-Max

VALVE ACTUATORS

Asahi/America
Ball
Capmatic Ltd
Festo Corp
GEA Tuchenhagen
North America
GEMU Valves
Goyen Valve LLC,
Pentair Environmental
Systems
Haydon Kerk Motion
Solutions
Honeywell, Industrial
Measurement &
Controls Div
IFM Efector
Kemutec
Key Intl
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Div
Lumaco
METO Corp
Nicholson Steam Trap,
Div Circor Intl
Nippon Daiya Valve
Co Ltd
PBM
Plast-O-Matic Valves
POSI FLATE
Process Solutions
Sentinel Process
Systems
Servolift
Spirax Sarco
SPX Flow
Strahman Valves
Thar Process
Top Line Process
Equipment Co
Vac-U-Max
VNE Corp
Waukesha Cherry-
Burrell, An SPX Flow
Brand, SPX Flow
Wm. W. Meyer & Sons

VALVE POSITION TRANSMITTERS

Bergen Industrial
Supply Co
Festo Corp
GEA Tuchenhagen
North America
IFM Efector
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Div
Nicholson Steam Trap,
Div Circor Intl
Plast-O-Matic Valves
Spirax Sarco
SPX Flow
Waukesha Cherry-
Burrell, An SPX Flow
Brand, SPX Flow

VALVES, AIR-ACTUATED

Asahi/America
Beswick Engineering Co
CPV Mfg
EquipNet
Everlasting Valve Co
Festo Corp
First Sensor
GEA Tuchenhagen
North America
GEMCO
GEMU Valves
Goyen Valve LLC,
Pentair Environmental
Systems
ITT Engineered Valves
JLS Intl
Kemutec
Key Intl

Lee Industries, Process
Systems & Equipment/
Fluid Transfer Div
Lumaco
METO Corp
MO Industries
Nicholson Steam Trap,
Div Circor Intl
Nippon Daiya Valve
Co Ltd
Parker, Fluid Control Div
Plast-O-Matic Valves
Ryan Herco Flow
Solutions
Ryan Specialty Valve
Products LLC
Servolift
SPX Flow
Strahman Valves
Top Line Process
Equipment Co
Unibloc-Pump,
Flowtech Div
Vac-U-Max
Vindum Engineering
VNE Corp
Waukesha Cherry-
Burrell, An SPX Flow
Brand, SPX Flow
Wm. W. Meyer & Sons

VALVES, ASEPTIC PROCESSING

Alfa Laval Tank
Equipment
Festo Corp
GEA Tuchenhagen
North America
GEMU Valves
GMP Systems
Key Intl
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Div
Lumaco
Nippon Daiya Valve
Co Ltd
PBM
Process Tek
Ryan Specialty Valve
Products LLC
Sentinel Process
Systems
SPX Flow
Steridose Sales
Top Line Process
Equipment Co
Unibloc-Pump,
Flowtech Div
Waukesha Cherry-
Burrell, An SPX Flow
Brand, SPX Flow

VALVES, BALL

Alfa Laval Tank
Equipment
ARCHON Industries
Asahi/America
Beswick Engineering Co
Chem Flowtronics
Detectable Materials
Festo Corp
GEMU Valves
GMP Systems
Integrated Gas Services
JLS Intl
Key Intl
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Div
MKS Instruments
Nicholson Steam Trap,
Div Circor Intl
Nippon Daiya Valve
Co Ltd
Omega Engineering
Palmer Wahl
Temperature Products
Parker, Fluid Control Div
PBM
Plast-O-Matic Valves
Restek Corp
Rubber Fab

For vendor contact information, see Company Directory section.

Ryan Herco Flow Solutions
 Ryan Specialty Valve Products LLC
 Sentinel Process Systems
 Spirax Sarco
 SPX Flow
 Top Line Process Equipment Co
 Unibloc-Pump, Flowtech Div
 VNE Corp
 Waukesha Cherry-Burrell, An SPX Flow Brand, SPX Flow

VALVES, BOTTOM OUTLET

Alfa Laval Tank Equipment
 Bioengineering
 De Dietrich Process Systems
 Detectable Materials
 Everlasting Valve Co
 Festo Corp
 GEA Tuuchenhagen North America
GEMU Valves
 Isolation Systems
 ITT Engineered Valves
 JLS Intl
 Lee Industries, Process Systems & Equipment/
 Fluid Transfer Div
 Lumaco
 Nippon Daiya Valve Co Ltd
 Plast-O-Matic Valves
 Ryan Herco Flow Solutions
 Ryan Specialty Valve Products LLC
 Servolift
 SPX Flow
 Steridose Sales
 Strahman Valves
 Top Line Process Equipment Co
 Unibloc-Pump, Flowtech Div
 Waukesha Cherry-Burrell, An SPX Flow Brand, SPX Flow

VALVES, BUTTERFLY

Alfa Laval Tank Equipment
 ARCHON Industries
 Asahi/America
 Bergen Industrial Supply Co
 Coperion K-Tron
 Custom Powder Systems. The Containment Co
 De Dietrich Process Systems
 Detectable Materials
 Festo Corp
 GEA Tuuchenhagen North America
GEMU Valves
 GMP Systems
 Isolation Systems
 Kemutec
 Key Intl
 LB Bohle LLC
 Lumaco
 Met - Pro Global Pump Solutions - Fybroc
 METO Corp
 MKS Instruments
 MO Industries
 Nicholson Steam Trap, Div Circor Intl
 Nippon Daiya Valve Co Ltd
 Plast-O-Matic Valves
 POSI FLATE
 Process Solutions

Ryan Herco Flow Solutions
 Ryan Specialty Valve Products LLC
 Servolift
 SPX Flow
 Top Line Process Equipment Co
 Unibloc-Pump, Flowtech Div
Vac-U-Max
 VNE Corp
 Waukesha Cherry-Burrell, An SPX Flow Brand, SPX Flow

VALVES, CHECK

Alfa Laval Tank Equipment
 Asahi/America
 Bel-Art Products
 Bergen Industrial Supply Co
 Beswick Engineering Co
 BioChem Fluidics
 Chem Flowtronics
 CPV Mfg
 Detectable Materials
 Festo Corp
GEMU Valves
 Integrated Gas Services
 Intellitech
 Kemutec
 Lumaco
 MKS Instruments
 Nicholson Steam Trap, Div Circor Intl
 Nippon Daiya Valve Co Ltd
 Parker, Fluid Control Div
 Plast-O-Matic Valves
 Powder-Solutions
 Ryan Herco Flow Solutions
 Ryan Specialty Valve Products LLC
 Sentinel Process Systems
 Spirax Sarco
 SPX Flow
 Top Line Process Equipment Co
 Unibloc-Pump, Flowtech Div
 VNE Corp
 Waukesha Cherry-Burrell, An SPX Flow Brand, SPX Flow

VALVES, CLOSURE

Alfa Laval Tank Equipment
 Bergen Industrial Supply Co
 CPV Mfg
 Detectable Materials
 Festo Corp
 GMP Systems
 JLS Intl
 Kemutec
 Lee Industries, Process Systems & Equipment/
 Fluid Transfer Div
 Lumaco
 Nippon Daiya Valve Co Ltd
 Plast-O-Matic Valves
 Ryan Herco Flow Solutions
 Servolift
 SPX Flow
 Top Line Process Equipment Co
 Unibloc-Pump, Flowtech Div
 Waukesha Cherry-Burrell, An SPX Flow Brand, SPX Flow

VALVES, CONTROL

Airgas
 Alfa Laval Tank Equipment

Asahi/America
 Bel-Art Products
 Bergen Industrial Supply Co
 CPV Mfg
 Detectable Materials
 Festo Corp
 First Sensor
 GEA Tuuchenhagen North America
GEMU Valves
 GMP Systems
 Goyen Valve LLC, Pentair Environmental Systems
 JLS Intl
 Kemutec
 Kimble Chase, Life Sciences & Research
 Lee Industries, Process Systems & Equipment/
 Fluid Transfer Div
 Lumaco
 MKS Instruments
 Nippon Daiya Valve Co Ltd
 Omega Engineering
 Parker, Fluid Control Div
 Plast-O-Matic Valves
 Rockwell Automation
 Ryan Specialty Valve Products LLC
 Sentinel Process Systems
 Servolift
 Sierra Instruments
 Spirax Sarco
 SPX Flow
 Top Line Process Equipment Co
Vac-U-Max
 Waukesha Cherry-Burrell, An SPX Flow Brand, SPX Flow

VALVES, DIAPHRAGM

Alfa Laval Tank Equipment
 Asahi/America
 Bergen Industrial Supply Co
 BioChem Fluidics
 Bioengineering
 BioPro Intl
 Chem Flowtronics
 Detectable Materials
 Festo Corp
GEMU Valves
 GMP Systems
 Goyen Valve LLC, Pentair Environmental Systems
 Integrated Gas Services
 Isolation Systems
 ITT Engineered Valves
 Kemutec
 Lee Industries, Process Systems & Equipment/
 Fluid Transfer Div
 MKS Instruments
 Nippon Daiya Valve Co Ltd
 Omega Engineering
 Parker, Fluid Control Div
 Plast-O-Matic Valves
 Ryan Herco Flow Solutions
 Ryan Specialty Valve Products LLC
 Sentinel Process Systems
 SPX Flow
 Steridose Sales
 Top Line Process Equipment Co
 Unibloc-Pump, Flowtech Div
 Waukesha Cherry-Burrell, An SPX Flow Brand, SPX Flow

VALVES, DISPOSABLE

Bergen Industrial Supply Co
 Festo Corp
GEMU Valves
 GMP Systems
 Intellitech

VALVES, FLOW

Alfa Laval Tank Equipment
 Asahi/America
 Bel-Art Products
 Bergen Industrial Supply Co
 Beswick Engineering Co
 BioChem Fluidics
 Cadence Science
 Coperion K-Tron
 Festo Corp
GEMU Valves
 GMP Systems
 JLS Intl
 Kemutec
 Key Intl
 Lee Industries, Process Systems & Equipment/
 Fluid Transfer Div
 Lumaco
 MKS Instruments
 Omega Engineering
 Parker, Fluid Control Div
 Plast-O-Matic Valves
 POSI FLATE
 Ryan Herco Flow Solutions
 Servolift
 Sierra Instruments
 SPX Flow
 Top Line Process Equipment Co
 Unibloc-Pump, Flowtech Div
 VNE Corp
 Waukesha Cherry-Burrell, An SPX Flow Brand, SPX Flow
 Wm. W. Meyer & Sons

VALVES, GLASS-LINED

3V TECH USA
 Chem Flowtronics
 De Dietrich Process Systems
 GMP Systems
 ITT Engineered Valves
 Nippon Daiya Valve Co Ltd
 Pfaudler
 Ryan Herco Flow Solutions
 Ryan Specialty Valve Products LLC
 Sentinel Process Systems

VALVES, PLASTIC PLUG

Alfa Laval Tank Equipment
 Asahi/America
 Bergen Industrial Supply Co
 BioChem Fluidics
 Bioengineering
 BioPro Intl
 De Dietrich Process Systems
 Everlasting Valve Co
 Festo Corp
 GEA Tuuchenhagen North America
 GMP Systems
 ITT Engineered Valves
 Jaygo
 JLS Intl
 Kemutec
 Lee Industries, Process Systems & Equipment/
 Fluid Transfer Div
 Nippon Daiya Valve Co Ltd

VALVES, PTFE (METERING)

Asahi/America
 Ball
 Bergen Industrial Supply Co
 BioChem Fluidics
 Chem Flowtronics
 Detectable Materials
 Festo Corp
GEMU Valves
 GMP Systems
 Kimble Chase, Life Sciences & Research
 Pfaudler
 Ryan Herco Flow Solutions
 Ryan Specialty Valve Products LLC

VALVES, PTFE (PNEUMATIC, ELECTRIC, AND MECHANICAL)

Asahi/America
 Bergen Industrial Supply Co
 BioChem Fluidics
 Chem Flowtronics
 Detectable Materials
 Festo Corp
GEMU Valves
 GMP Systems
 Kemutec
 Parker, Fluid Control Div
 Plast-O-Matic Valves
 Ryan Herco Flow Solutions
 Ryan Specialty Valve Products LLC
 Sentinel Process Systems
 Steridose Sales
 Top Line Process Equipment Co
 VNE Corp

VALVES, ROTARY

Bergen Industrial Supply Co
 Beswick Engineering Co
 Coperion K-Tron
 Federal Equipment Co
 Festo Corp
 GMP Systems
 JLS Intl
 Key Intl
 Process Solutions
 Ryan Specialty Valve Products LLC
 Schenck Process
 Servolift
 Wm. W. Meyer & Sons
 Zinsser NA

VALVES, SAMPLING

3V TECH USA
 Alfa Laval Tank Equipment
 Asahi/America
 Bergen Industrial Supply Co
 BioChem Fluidics
 Bioengineering
 BioPro Intl
 De Dietrich Process Systems
 Everlasting Valve Co
 Festo Corp
 GEA Tuuchenhagen North America
 GMP Systems
 ITT Engineered Valves
 Jaygo
 JLS Intl
 Kemutec
 Lee Industries, Process Systems & Equipment/
 Fluid Transfer Div
 VNE Corp

VALVES, SPHERICAL

Festo Corp
 GEMCO
 GMP Systems
 Jaygo
 JLS Intl
 Ryan Specialty Valve Products LLC

PBM
 Plast-O-Matic Valves
 Process Tek
 QualiTru Sampling Systems
 Ryan Specialty Valve Products LLC
 Sentinel Process Systems
 Sentry Equipment
 SPX Flow
 Steridose Sales
 Strahman Valves
 Top Line Process Equipment Co
 Unibloc-Pump, Flowtech Div
 VNE Corp
 Waukesha Cherry-Burrell, An SPX Flow Brand, SPX Flow

VALVES, SANITARY PLUG

Alfa Laval Tank Equipment
 ARCHON Industries
 Bergen Industrial Supply Co
 Detectable Materials
 Festo Corp
 GEA Tuuchenhagen North America
 GMP Systems
 Jaygo
 JLS Intl
 Lee Industries, Process Systems & Equipment/
 Fluid Transfer Div
 Ryan Specialty Valve Products LLC
 Top Line Process Equipment Co
 Waukesha Cherry-Burrell, An SPX Flow Brand, SPX Flow

VALVES, SPECIAL

Alfa Laval Tank Equipment
 Asahi/America
 Beswick Engineering Co
 BioChem Fluidics
 Everlasting Valve Co
 Festo Corp
 GEA Tuuchenhagen North America
 GEMCO
 GMP Systems
 ITT Engineered Valves
 Jaygo
 JLS Intl
 Lee Industries, Process Systems & Equipment/
 Fluid Transfer Div
 Lumaco
 Parker, Fluid Control Div
 PBM
 Plast-O-Matic Valves
 POSI FLATE
 Ryan Specialty Valve Products LLC
 Servolift
 Strahman Valves
 Top Line Process Equipment Co
 Vindum Engineering
 VNE Corp

Servolift
Waukesha Cherry-
Burrell, An SPX Flow
Brand, SPX Flow

**VALVES, TWO-WAY
DIVERTOR**

Bergen Industrial
Supply Co
Beswick Engineering Co
BioChem Fluidics
Coperion K-Tron
EquipNet
Everlasting Valve Co
Festo Corp
GEA Tuchenhagen
North America
GEMCO
GEMU Valves
GMP Systems
ITT Engineered Valves
JLS Intl
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Div
Lumaco
Parker, Fluid Control Div
PBM
Plast-O-Matic Valves
Ryan Specialty Valve
Products LLC
Schenck Process
Sentinel Process
Systems
SPX Flow
Top Line Process
Equipment Co
Unibloc-Pump,
Flowtech Div
Vac-U-Max
VNE Corp
Waukesha Cherry-
Burrell, An SPX Flow
Brand, SPX Flow
Wm. W. Meyer & Sons

WASHERS, SLAT

EquipNet
Girton Mfg Co,
Pharmaceutical Div
Integrated Packaging
Systems
Lancer USA
Miele, Professional
Products Div

WASHERS, STOPPER

AWS Bio-Pharma
Technologies
Branson Ultrasonics
Corp
Cozzoli Machine Co
DCI-Biolafitte
EquipNet
Federal Equipment Co
Getinge USA,
Life Science

Lancer USA
Miele, Professional
Products Div
Nicos Group
Pharmasystems
Victor Intl Mktg

**WASHERS, SYRINGE
PARTS**

AWS Bio-Pharma
Technologies
Bausch Advanced
Technologies
Bausch+Stroebel
Machine Co
Branson Ultrasonics
Corp
Efficient Automated
Machine Corp
EquipNet
Getinge USA,
Life Science
Lancer USA
Nicos Group
Optima Machinery Corp
Thomas Scientific
Victor Intl Mktg
Zinsser NA

WASHERS, VIAL

AWS Bio-Pharma
Technologies
Bausch Advanced
Technologies
BioPro Intl
Branson Ultrasonics
Corp
Cozzoli Machine Co
Efficient Automated
Machine Corp
EquipNet
Garvey Corp
Girton Mfg Co,
Pharmaceutical Div
groninger USA L.L.C
Lancer USA
MAR Machine
Automatische
Riempitrici SPA
Miele, Professional
Products Div
Nicos Group
Optima Machinery Corp
PennTech Machinery
Corp
Romaco North
American
Seidenader
Maschinenbau GmbH

**WASTE WATER
TREATMENT
EQUIPMENT**

3V TECH USA
Acrison
ADI Systems,
An Evoqua Brand

Anguil Environmental
Systems
Aries FilterWorks,
Div ResinTech
Bioscience
ClearWater Enviro
Technologies
EquipNet
Franklin Miller
GEA Process
Engineering, GEA
Pharma Systems
HEMCO Corp
IKA Works,
Lab, Analytical and
Process Equipment
International Process
Plants IPP
Komline-Sanderson
Kyte Centrifuge Sales &
Consulting
Lancer USA
Lightnin, An SPX Brand,
SPX Flow Technology
Met - Pro Global Pump
Solutions - Fybroc
Met-Pro Global Pump
Solutions - Sethco
Microdyn Technologies
Mott Corp
Notch Mechanical
Constructors
Pick Heaters
Praxair
Pulsafeeder /
Unit of IDEX Corp,
Engineered Pump
Operations
Rockwell Automation
Siemens Process
Industries + Drives
Sierra Instruments
Stilmas USA
Terracon Corp
The Spencer Turbine Co
Viатran
Vibra Screw
Xylem Services GmbH
Yamada America

**WATER
PURIFICATION,
CARBON
ADSORPTION**

Aries FilterWorks,
Div ResinTech
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
EquipNet
Honeyman Group Ltd
Medro Systems
Notch Mechanical
Constructors
Olsa USA
Rockwell Automation
Stilmas USA
Terracon Corp

**WATER
PURIFICATION,
DEIONIZATION**

Aries FilterWorks,
Div ResinTech
AWS Bio-Pharma
Technologies
CARON Products
Services
ClearWater Enviro
Technologies
Detectable Materials
Dristeem
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
EquipNet
Getinge USA,
Life Science
GMP Systems
Honeyman Group Ltd
Medro Systems
Membrana
Olsa USA
Rockwell Automation
Stilmas USA
Terracon Corp

**WATER
PURIFICATION,
REVERSE OSMOSIS**

Aries FilterWorks,
Div ResinTech
AWS Bio-Pharma
Technologies
ClearWater Enviro
Technologies
Detectable Materials
Dristeem
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
EquipNet
Getinge USA,
Life Science
GMP Systems
HealthStar
Honeyman Group Ltd
International Process
Plants IPP
Medro Systems
Miele, Professional
Products Div
Process Tek
Rees Scientific
Rockwell Automation
Stilmas USA
Terracon Corp

**WATER
PURIFICATION, UV
TREATMENT**

Aquionics
CARON Products
Services
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany

EquipNet
GMP Systems
Honeyman Group Ltd
Olsa USA
Rees Scientific
Rockwell Automation
Stilmas USA
Terracon Corp
Xylem Services GmbH

**WATER TREATMENT
SYSTEMS**

3V TECH USA
Acrison
ADI Systems,
An Evoqua Brand
**Allegheny Bradford
Corp, Corporate**
Anquil Environmental
Systems
Aries FilterWorks,
Div ResinTech
AWS Bio-Pharma
Technologies
BOC, A member of
The Linde Group
CB Minerals LLC
ClearWater Enviro
Technologies
Dristeem
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Fluid Metering
Getinge USA,
Life Science
GMP Systems
Goyen Valve LLC,
Pentair Environmental
Systems
Honeyman Group Ltd
Imerys, Filtration
Membrana
Microdyn Technologies
Olsa USA
Pall Life Sciences,
Biopharmaceuticals
Process Tek
Pulsafeeder /
Unit of IDEX Corp,
Engineered Pump
Operations
Rockwell Automation
Stilmas USA
Terracon Corp
Thomas Scientific
Viатran
Xylem Services GmbH
Yamada America

**WATER, FOR
INJECTION**

A&B Process Systems,
JBT Corp
Aries FilterWorks,
Div ResinTech

AWS Bio-Pharma
Technologies
Getinge USA,
Life Science
Honeyman Group Ltd
Microdyn Technologies
Notch Mechanical
Constructors
Olsa USA
Pall Corp,
Life Sciences Group
Stainless Fabrication
Stilmas USA

WATER, ULTRAPURE

Aquionics
Aries FilterWorks,
Div ResinTech
Asahi/America
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Getinge USA,
Life Science
GMP Systems
Honeyman Group Ltd
Membrana
Microdyn Technologies
Olsa USA
Pall Corp,
Life Sciences Group
Stilmas USA
Terracon Corp
Thomas Scientific

WELDING

A&B Process Systems,
JBT Corp
American Alloy
Fabricators
Asahi/America
Cadence Science
Control Micro Systems
EquipNet
Liburdi Dimetrics Corp
Magnatech LLC
Ruland Engineering &
Consulting GmbH
SEBRA, Biopharm &
Cellular Therapy
Sonics & Materials
Westfield Sheet
Metal Works

**WELDING,
ULTRASONIC**

Herrmann Ultrasonics
Sonics & Materials

WIRING SYSTEMS

WAGO Corp ■



equipment & supplies

CLEANROOM

See listings online at PharmTech.com

For vendor contact information, see Company Directory section.

ACID BATHS

CleanZones LLC
Milestone

AIR BLOWERS, IONIZING

EXAIR Corp
HEMCO Corp
Meech Static
Eliminators USA
Quality Air Control
Simco-Ion,
Illinois Tool Works Co
Thomas Scientific
Ultrapure Technology

AIR CURTAINS

Atmos-Tech Industries
CleanZones LLC
Connecticut Clean
Room Corp
EXAIR Corp
HEMCO Corp
LM Air Technology,
Cleanroom & Lab
Equipment
Meech Static
Eliminators USA
TRAX Industrial Curtains
Ultrapure Technology

AIR GUNS, NITROGEN

CleanZones LLC
EXAIR Corp
General Lab &
Cleanroom Supply
Liberty Industries

AIR HANDLING SYSTEMS

AWS Bio-Pharma
Technologies
Buffalo Air Handling
Fab-Tech
Flanders Corp,
Containment Products
Liberty Industries
Parameter Generation &
Control
Quality Air Control
Rockwell Automation
Scientific Dust Collectors
Technovation Systems

AIR PRESSURE CONTROLS

Ashcroft
MKS Instruments
Quality Air Control
Rockwell Automation

AIR PRESSURE MONITORS

Ashcroft
Biological Controls
Flow Sciences
HEMCO Corp
MKS Instruments

AIR SHOWERS

AdvanceTEC
AES Clean Technology
Atmos-Tech Industries
Clean Rooms Intl
CleanZones LLC
Connecticut Clean
Room Corp
F.P.S. Food and Pharma
Systems srl
Liberty Industries

LM Air Technology,
Cleanroom & Lab
Equipment
Quality Air Control
Ultrapure Technology

AIR VELOCITY METERS

Degree Controls
Isolation Systems
Kanomax USA
Liberty Industries
Sierra Instruments
Testo

AIR VELOCITY MONITORS

Ashcroft
Degree Controls
Flow Sciences
Hampshire Controls Corp
HEMCO Corp
Kanomax USA
Testo

AIRLOCKS

AdvanceTEC
AES Clean Technology
Atmos-Tech Industries
CleanZones LLC
ESCO Technologies,
Esco Pharma Factory
GEA Process
Engineering, GEA
Pharma Systems
Quality Air Control
Schenck Process

ALARMS

Bel-Art Products
Flow Sciences
Hampshire Controls Corp
HEMCO Corp
Mil-Ram Technology
Rockwell Automation

ANEMOMETERS

Hutchins & Hutchins,
Cleanroom Equipment /
Supply Distributor
Kanomax USA
Omega Engineering
Testo

APPLICATORS, FIBER-TIPPED

Angstrom Supply
Connecticut Clean
Room Corp
Porex Filtration group

APPLICATORS, FOAM-TIPPED

Angstrom Supply
Blue Thunder
Technologies
Connecticut Clean
Room Corp
Hutchins & Hutchins,
Cleanroom Equipment /
Supply Distributor
Liberty Industries
Porex Filtration group

APPLICATORS, PLAIN WOOD

Blue Thunder
Technologies
Connecticut Clean
Room Corp

General Lab &
Cleanroom Supply
Porex Filtration group

APRONS, DISPOSABLE

Angstrom Supply
Bel-Art Products
Blue Thunder
Technologies
Cintas, Cleanroom Div
Connecticut Clean
Room Corp
CSR Pharma Services
Electron Microscopy
Sciences
FabOhio
General Econopak
Hutchins & Hutchins,
Cleanroom Equipment /
Supply Distributor
Thomas Scientific
ValuMax Disposable
Apparel

APRONS, REUSABLE

Angstrom Supply
Bel-Art Products
Blue Thunder
Technologies
Connecticut Clean
Room Corp
CSR Pharma Services
FabOhio
SGC
VWR Intl LLC

APRONS, STERILE

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Cintas, Cleanroom Div
Connecticut Clean
Room Corp
CSR Pharma Services
General Econopak
Hutchins & Hutchins,
Cleanroom Equipment /
Supply Distributor

ATMOSPHERIC CHAMBERS

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Containment Products
VWR Intl LLC

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3V TECH USA
AES Clean Technology
Atmos-Tech Industries
AWS Bio-Pharma
Technologies
BIOQUELL,
Life Sciences
CSR Pharma Services
ESCO Technologies,
Esco Pharma Factory
Extract Technology
F.P.S. Food and Pharma
Systems srl
FabOhio
Flanders Corp,
Containment Products
Getinge USA,
Life Science
groninger USA L.L.C
Hutchins & Hutchins,
Cleanroom Equipment /
Supply Distributor
Integrated Containment
Systems

ISO Tech Design
Isolation Systems
Mendel Co
Optima Machinery Corp
Pharmasystems
Shibuya Hoppmann Corp
The Baker Co
VWR Intl LLC

BEARD GUARDS

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Connecticut Clean
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Hutchins & Hutchins,
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Supply Distributor
Isolation Systems
Liberty Industries
Shoe Inn
ValuMax Disposable
Apparel

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Atmos-Tech Industries
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Room Corp
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Containment Products
Flow Sciences
Gerbig Engineering
HEMCO Corp
Hutchins & Hutchins,
Cleanroom Equipment /
Supply Distributor
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Laminar Flow
Liberty Industries
LM Air Technology,
Cleanroom & Lab
Equipment
Technovation Systems
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Thomas Scientific
Ultrapure Technology
VWR Intl LLC

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Flanders Corp,
Containment Products
Flow Sciences
Hutchins & Hutchins,
Cleanroom Equipment /
Supply Distributor
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ITW Texwipe
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Liberty Industries
The Baker Co
Ultrapure Technology

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Atmos-Tech Industries
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CleanZones LLC
Connecticut Clean
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Containment Products
Flow Sciences

Gerbig Engineering
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Hutchins & Hutchins,
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Supply Distributor
Laminar Flow
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LM Air Technology,
Cleanroom & Lab
Equipment
Plymovent NA
Quality Air Control
Technovation Systems
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Ultrapure Technology

BOOTS, DISPOSABLE

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General Lab &
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Connecticut Clean
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BOOTS, STERILE

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Cintas, Cleanroom Div
General Econopak
Hutchins & Hutchins,
Cleanroom Equipment /
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Mycoscience
Ultrapure Technology
Veltek Assocs

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Blue Thunder
Technologies
General Lab &
Cleanroom Supply
ILC Dover

BREATH BAGS

General Lab &
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Powers Scientific
SG Magee Co
Technovation Systems
VWR Intl LLC

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ITW Polymers
Adhesives
ITW Polymers Sealants,
Futura Coatings
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**EXHAUST
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Plymovent NA

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Apparel

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/ Supply Distributor
ILC Dover
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UniClean,
Div Unifirst Corp
VWR Intl LLC

**FACE MASKS,
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General Econopak
Hutchins & Hutchins,
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Div Unifirst Corp
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Hutchins & Hutchins,
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/ Supply Distributor
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Microbiological
Environments
Mil-Ram Technology
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Veltek Assocs

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Plymovent NA
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Atmos-Tech Industries
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Gerbig Engineering
HEMCO Corp
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Quality Air Control
Ultrapure Technology

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Technologies
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HEMCO Corp

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DETECTION
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Mil-Ram Technology
Quality Air Control
Sensaphone

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Nicos Group
PlugIn Storage
Systems - PSSI
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FLOOR SEALANTS

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General Lab &
Cleanroom Supply
ITW Polymers
Adhesives
ITW Polymers Sealants,
Futura Coatings
Liberty Industries
PlugIn Storage
Systems - PSSI
Stonhard

FLOOR STRIPPERS

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Liberty Industries
PlugIn Storage
Systems - PSSI

FLOOR WAX

General Lab &
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PlugIn Storage
Systems - PSSI

FLOORING

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HEMCO Corp
Klean Tack
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nora systems
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FRAMING SYSTEMS

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Nicos Group

**FROCKS,
DISPOSABLE**

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FROCKS, REUSABLE

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Technologies
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SGC
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FROCKS, STERILE

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Connecticut Clean
Room Corp
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LM Air Technology,
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GARMENTS, DISPOSABLE

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General Lab &
Cleanroom Supply
Ultrapure Technology
UniClean,
Div Unifirst Corp
ValuMax Disposable
Apparel
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GARMENTS, RENTAL

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UniClean,
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GARMENTS, REUSABLE

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Room Corp
Liberty Industries
SGC
Ultrapure Technology
UniClean,
Div Unifirst Corp

GARMENTS, STERILE

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UniClean,
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Isolation Systems
Laminar Flow
NexGen Enviro Systems
Pharmasystems
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Thermosysteme
Process Tek
Renco Corp
Ryan Herco Flow
Solutions
The Baker Co
Ultrapure Technology
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Westfield Sheet
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Custom Powder
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Sciences
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
KNF Corp
Liberty Industries
QRP Gloves
Renco Corp
Shoe Inn
Showa Best Glove
Wells Lamont Industrial

GLOVES, DISPOSABLE

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Ansell Protective
Products,
Occupational
Healthcare Div
Blue Thunder
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Connecticut Clean
Room Corp
Edgeco
Electron Microscopy
Sciences
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Cleanroom Equipment
/ Supply Distributor
KNF Corp
Liberty Industries
QRP Gloves
Renco Corp
Shoe Inn
Showa Best Glove

GLOVES, LATEX

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Edgeco
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Liberty Industries
QRP Gloves
Renco Corp
Shoe Inn
Showa Best Glove

GLOVES, NEOPRENE

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Bel-Art Products
Cintas, Cleanroom Div
Connecticut Clean
Room Corp
CSR Pharma Services
Edgeco
Electron Microscopy
Sciences
Flanders Corp,
Containment Products
General Lab &
Cleanroom Supply
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Shoe Inn
Showa Best Glove

GLOVES, NITRILE

Angstrom Supply
Ansell Protective
Products,
Occupational
Healthcare Div
Cintas, Cleanroom Div
Connecticut Clean
Room Corp
Edgeco
Electron Microscopy
Sciences
FabOhio

Flanders Corp,
Containment Products
General Lab &
Cleanroom Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
QRP Gloves
Renco Corp
Shoe Inn
Showa Best Glove
Ultrapure Technology
Wells Lamont Industrial

GLOVES, NYLON

Angstrom Supply
Ansell Protective
Products,
Occupational
Healthcare Div
Electron Microscopy
Sciences
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Isolation Systems
Liberty Industries
QRP Gloves
Renco Corp
Thomas Scientific
Ultrapure Technology
Wells Lamont Industrial

GLOVES, POLYESTER

Angstrom Supply
Ansell Protective
Products,
Occupational
Healthcare Div
CSR Pharma Services
Electron Microscopy
Sciences
General Lab &
Cleanroom Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Liberty Industries
QRP Gloves
Renco Corp
Ultrapure Technology
Wells Lamont Industrial

GLOVES, POLYURETHANE

Angstrom Supply
Ansell Protective
Products,
Occupational
Healthcare Div
Blue Thunder
Technologies
CSR Pharma Services
Flanders Corp,
Containment Products
General Lab &
Cleanroom Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
QRP Gloves
Renco Corp
Ultrapure Technology
Wells Lamont Industrial

GLOVES, POWDER-FREE

Angstrom Supply
Ansell Protective
Products,
Occupational
Healthcare Div
Cintas, Cleanroom Div
CSR Pharma Services
Edgeco
Electron Microscopy
Sciences
General Lab &
Cleanroom Supply

Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Liberty Industries
Mycoscience
QRP Gloves
Renco Corp
Shoe Inn
Showa Best Glove

GLOVES, POWDERED

Angstrom Supply
Ansell Protective
Products,
Occupational
Healthcare Div
Cintas, Cleanroom Div
CSR Pharma Services
Edgeco
Electron Microscopy
Sciences
General Lab &
Cleanroom Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
QRP Gloves
Renco Corp
Shoe Inn
Showa Best Glove

GLOVES, PTFE

Connecticut Clean
Room Corp
CSR Pharma Services
Flanders Corp,
Containment Products
General Lab &
Cleanroom Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
KNF Corp
QRP Gloves
VWR Intl LLC
WL Gore & Assocs,
Gore PharmBIO
Products

GLOVES, REUSABLE

Ansell Protective
Products,
Occupational
Healthcare Div
Connecticut Clean
Room Corp
CSR Pharma Services
General Lab &
Cleanroom Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Liberty Industries
QRP Gloves
Renco Corp
UniClean,
Div Unifirst Corp
VWR Intl LLC
Wells Lamont Industrial

GLOVES, STERILE

Ansell Protective
Products,
Occupational
Healthcare Div
Cintas, Cleanroom Div
Connecticut Clean
Room Corp
CSR Pharma Services
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
QRP Gloves
Renco Corp
Shoe Inn
Showa Best Glove
Ultrapure Technology
UniClean,
Div Unifirst Corp
Wells Lamont Industrial

GLOVES, VINYL

Ansell Protective
Products,
Occupational
Healthcare Div
Carolina Absorbent
Cotton Co
Connecticut Clean
Room Corp
CSR Pharma Services
Electron Microscopy
Sciences
Flanders Corp,
Containment Products
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Liberty Industries
QRP Gloves
Renco Corp
Shoe Inn
Showa Best Glove
Ultrapure Technology

GOGGLES

Bel-Art Products
Cintas, Cleanroom Div
Connecticut Clean
Room Corp
Edgeco
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Spectronics Corp
Ultrapure Technology
Vision USA,
a Dentrex Co

HAND CLEANING SYSTEMS

Advance Tabco
Connecticut Clean
Room Corp
Decon Labs
Electron Microscopy
Sciences
Liberty Industries
Meritech
Pall Life Sciences,
Biopharmaceuticals
Ultrapure Technology
VWR Intl LLC

HAND CONDITIONERS

Decon Labs
Electron Microscopy
Sciences
General Lab &
Cleanroom Supply
Ultrapure Technology

HAND DRYERS

Edgeco
Meritech
VWR Intl LLC

HAND PROTECTION AGENTS

Decon Labs
Liberty Industries

HAND SOAP

Contec
Decon Labs
Liberty Industries
Meritech

HAND TOOLS, AUTOCLAVABLE

Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Perflex Corp
Steritool
VWR Intl LLC

HIGH POTENCY

MATERIAL HANDLING EQUIPMENT
3V TECH USA
Custom Powder Systems. The Containment Co
EHS Solutions LLC
F.P.S. Food and Pharma Systems srl
Integrated Containment Systems
Nicos Group
Optima Machinery Corp

HOODS, DISPOSABLE

Allegro Industries
Angstrom Supply
Cintas, Cleanroom Div
General Econopak
Liberty Industries
UniClean, Div Unifirst Corp
Veltek Assocs

HOODS, EYES ONLY

Cintas, Cleanroom Div
General Econopak
Liberty Industries
SGC
Veltek Assocs

HOODS, FILTERED-AIR

AES Clean Technology
Air Purifiers
AirClean Systems
CleanZones LLC
Denver Instrument
Flanders Corp, Containment Products
HEMCO Corp
International Portland Corp
Isolation Systems
Kewaunee Scientific Corp
Liberty Industries
LM Air Technology, Cleanroom & Lab Equipment
Quality Air Control
The Baker Co
Ultrapure Technology

HOODS, OPEN-FACE

Allegro Industries
Blue Thunder Technologies
Cintas, Cleanroom Div
General Econopak
Isolation Systems
SGC
Ultrapure Technology
Veltek Assocs

HOODS, REUSABLE

Allegro Industries
Angstrom Supply
Cintas, Cleanroom Div
Connecticut Clean Room Corp
HEMCO Corp
SGC
UniClean, Div Unifirst Corp

HOODS, STERILE

AirClean Systems
Angstrom Supply
AWS Bio-Pharma Technologies
Cintas, Cleanroom Div
Connecticut Clean Room Corp
General Econopak

General Lab & Cleanroom Supply
International Portland Corp
Isolation Systems
Process Tek
Quality Air Control
The Baker Co
Ultrapure Technology
UniClean, Div Unifirst Corp
Veltek Assocs
VWR Intl LLC

HUMIDITY CONTROL SYSTEMS

AES Clean Technology
Carel USA LLC
Condaire plc
Dristeem
EdgeTech Moisture + Humidity
Eurotherm Brand, Invensys Operations Mgmt
Isolation Systems
Munters Corp
Parameter Generation & Control
Quality Air Control
Rotronic
Sensaphone

HVAC SYSTEM DESIGN SERVICES

AdvanceTEC
AES Clean Technology
Carel USA LLC
Condaire plc
Fab-Tech
Flanders Corp, Containment Products
Isolation Systems
MultiTherm LLC
Notch Mechanical Constructors
Quality Air Control
Technovation Systems
Ultrapure Technology
Westfield Sheet Metal Works

HVAC SYSTEMS

3V TECH USA
AdvanceTEC
AES Clean Technology
AWS Bio-Pharma Technologies
Buffalo Air Handling
Carel USA LLC
CleanZones LLC
Condaire plc
Dristeem
Fab-Tech
Flanders Corp, Containment Products
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
Isolation Systems
MultiTherm LLC
Munters Corp
Notch Mechanical Constructors
Quality Air Control
The Rovisys Co
WAGO Corp
Westfield Sheet Metal Works

INCUBATORS

Bahnsen Environmental Specialties, An EMCOR Co
CARON Products Services
Harris Environmental Systems
Powers Scientific

INSPECTION DEVICES

AC Compacting LLC
Angstrom Supply
Anorad, Rockwell Automation
Driam USA
ERIEZ, HQ
Fortress Technology
Global Vision
ISRA Surface Vision
Kaps-All Packaging Systems
Lenox Instrument Co
Loma Systems, an ITW Co
Micro Measurement Labs
MNEMONICS
Optical Gaging Products (OGP), Quality Vision Intl
RAM Optical
Instrumentation (RAM)
Siemens Process Industries + Drives
Spectronics Corp
Victor Intl Mktg

ISO CLASS 1

AdvanceTEC
Gerbig Engineering
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
Institute Of Environmental Sciences Technology
Isolation Systems
ITW Texwipe
JM Coull
Liberty Industries

ISO CLASS 2

AdvanceTEC
Blue Thunder Technologies
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
Institute Of Environmental Sciences Technology
ITW Texwipe
JM Coull
Liberty Industries

ISO CLASS 3 (FORMERLY M1.5 OR CLASS 1)

AdvanceTEC
Angstrom Supply
Cintas, Cleanroom Div
Gerbig Engineering
HEMCO Corp
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
Institute Of Environmental Sciences Technology
Isolation Systems
ITW Texwipe
JM Coull
Laminar Flow
Liberty Industries
Technovation Systems
UniClean, Div Unifirst Corp

ISO CLASS 4 (FORMERLY M2.5 OR CLASS 10)

AdvanceTEC
AES Clean Technology
Angstrom Supply
Atmos-Tech Industries
Bahnsen Environmental Specialties, An EMCOR Co
Clean Rooms Intl

CleanZones LLC
ENV Services
Gerbig Engineering
HEMCO Corp
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
Institute Of Environmental Sciences Technology
ISO Tech Design
Isolation Systems
ITW Texwipe
JM Coull
Laminar Flow
Technovation Systems

ISO CLASS 5 (FORMERLY M3.5 OR CLASS 100)

AdvanceTEC
AES Clean Technology
AirClean Systems
Angstrom Supply
Atmos-Tech Industries
Clean Rooms Intl
CleanZones LLC
ENV Services
ESCO Technologies, Esco Pharma Factory
Gerbig Engineering
HEMCO Corp
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
Institute Of Environmental Sciences Technology
ISO Tech Design
ITW Texwipe
JM Coull
Laminar Flow
LM Air Technology, Cleanroom & Lab Equipment
Nicos Group
Technovation Systems

ISO CLASS 6 (FORMERLY M4.5 OR CLASS 1,000)

AdvanceTEC
AES Clean Technology
Angstrom Supply
Atmos-Tech Industries
Bahnsen Environmental Specialties, An EMCOR Co
Clean Rooms Intl
CleanZones LLC
ENV Services
F.P.S. Food and Pharma Systems srl
Gerbig Engineering
HEMCO Corp
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
Institute Of Environmental Sciences Technology
ISO Tech Design
ITW Texwipe
JM Coull
Laminar Flow
Liberty Industries
LM Air Technology, Cleanroom & Lab Equipment
Nicos Group
Technovation Systems

ISO CLASS 7 (FORMERLY M5.5 OR CLASS 10,000)

AdvanceTEC
AES Clean Technology
Angstrom Supply
Atmos-Tech Industries

Bahnsen Environmental Specialties, An EMCOR Co
Clean Rooms Intl
CleanZones LLC
ENV Services
F.P.S. Food and Pharma Systems srl
Gerbig Engineering
HEMCO Corp
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
Institute Of Environmental Sciences Technology
ISO Tech Design
Isolation Systems
ITW Texwipe
JM Coull
Laminar Flow
LM Air Technology, Cleanroom & Lab Equipment
Nicos Group
Technovation Systems

ISO CLASS 8 (FORMERLY M6.5 OR CLASS 100,000)

AdvanceTEC
AES Clean Technology
Angstrom Supply
Atmos-Tech Industries
Bahnsen Environmental Specialties, An EMCOR Co
Clean Rooms Intl
CleanZones LLC
ENV Services
Gerbig Engineering
Institute Of Environmental Sciences Technology
ISO Tech Design
ITW Texwipe
JM Coull
Laminar Flow
LM Air Technology, Cleanroom & Lab Equipment
Technovation Systems

ISOLATORS, AUTOMATED ASEPTIC VIAL FILLING

Atmos-Tech Industries
ESCO Technologies, Esco Pharma Factory
Extract Technology
F.P.S. Food and Pharma Systems srl
Flanders Corp, Containment Products
Flow Sciences
General Lab & Cleanroom Supply
Gerbig Engineering
groninger USA L.L.C
HEMCO Corp
Hosokawa Micron Powder Systems
International Portland Corp
Laminar Flow
LM Air Technology, Cleanroom & Lab Equipment
OPTIMA pharma GmbH
The Baker Co

JANITORIAL SERVICES

Eurest Services/ MicroComplete
UniClean, Div Unifirst Corp

LAB COATS, DISPOSABLE

Angstrom Supply
Cintas, Cleanroom Div
Connecticut Clean Room Corp
CSR Pharma Services

Edgeco
General Econopak
Liberty Industries
Shoe Inn
Ultrapure Technology
UniClean, Div Unifirst Corp
ValuMax Disposable Apparel
Veltek Assocs

LAB COATS, REUSABLE

Angstrom Supply
Cintas, Cleanroom Div
Connecticut Clean Room Corp
General Econopak
General Lab & Cleanroom Supply
SGC
Ultrapure Technology
UniClean, Div Unifirst Corp

LAB COATS, STERILE

Angstrom Supply
Cintas, Cleanroom Div
Connecticut Clean Room Corp
General Econopak
General Lab & Cleanroom Supply
Ultrapure Technology
UniClean, Div Unifirst Corp
Veltek Assocs

LAMINAR-FLOW UNITS, HORIZONTAL

AdvanceTEC
AES Clean Technology
Air Science USA LLC
AirClean Systems
Atmos-Tech Industries
AWS Bio-Pharma Technologies
Clean Rooms Intl
CleanZones LLC
Connecticut Clean Room Corp
Custom Powder Systems. The Containment Co
Denver Instrument
ESCO Technologies, Esco Pharma Factory
F.P.S. Food and Pharma Systems srl
Flanders Corp, Containment Products
Flow Sciences
General Lab & Cleanroom Supply
Gerbig Engineering
groninger USA L.L.C
HEMCO Corp
Hosokawa Micron Powder Systems
International Portland Corp
Laminar Flow
LM Air Technology, Cleanroom & Lab Equipment
OPTIMA pharma GmbH
The Baker Co

LAMINAR-FLOW UNITS, VERTICAL

AdvanceTEC
AES Clean Technology
Air Science USA LLC
AirClean Systems
Atmos-Tech Industries
AWS Bio-Pharma Technologies
Clean Rooms Intl
CleanZones LLC

For vendor contact information, see Company Directory section.

Connecticut Clean Room Corp
Custom Powder Systems. The Containment Co
ESCO Technologies, Esco Pharma Factory
F.P.S. Food and Pharma Systems srl
Flanders Corp, Containment Products
Flow Sciences
Gerbig Engineering
groninger USA L.L.C
HEMCO Corp
Hosokawa Micron Powder Systems
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
International Portland Corp
ISO Tech Design
Kewaunee Scientific Corp
Laminar Flow
Liberty Industries
LM Air Technology, Cleanroom & Lab Equipment
OPTIMA pharma GmbH
Sierra Instruments
Technovation Systems
The Baker Co

LAMINAR-FLOW WORKSTATIONS

AdvanceTEC
AES Clean Technology
Air Science USA LLC
AirClean Systems
Atmos-Tech Industries
Clean Rooms Intl
CleanZones LLC
Connecticut Clean Room Corp
Custom Powder Systems. The Containment Co
Denver Instrument
ESCO Technologies, Esco Pharma Factory
F.P.S. Food and Pharma Systems srl
Flanders Corp, Containment Products
Flow Sciences
Gerbig Engineering
HEMCO Corp
International Portland Corp
ISO Tech Design
Isolation Systems
Kewaunee Scientific Corp
Laminar Flow
Liberty Industries
LM Air Technology, Cleanroom & Lab Equipment
Technovation Systems
The Baker Co
Thomas Scientific

LAMINAR-FLOW WORKSTATIONS, PORTABLE

AES Clean Technology
Air Science USA LLC
AirClean Systems
Clean Rooms Intl
CleanZones LLC
Connecticut Clean Room Corp
ESCO Technologies, Esco Pharma Factory
Flanders Corp, Containment Products
Flow Sciences
General Lab & Cleanroom Supply

Gerbig Engineering
HEMCO Corp
International Portland Corp
ISO Tech Design
Laminar Flow
Liberty Industries
LM Air Technology, Cleanroom & Lab Equipment
Process Tek
Technovation Systems
The Baker Co
Thomas Scientific

LAMPS, UV

Blue Thunder Technologies
Edgeco
Q-Lab Corp
Spectronics Corp
Thomas Scientific
Xenon Corp

LAUNDRY EQUIPMENT

Edgeco
Nicholson Steam Trap, Div Circoor Intl
Technovation Systems
Yamada America

LAUNDRY SERVICES

UniClean, Div Unifirst Corp

LEAK DETECTORS

Airgas
AWS Bio-Pharma Technologies
E Instruments Intl
LEYBOLD
Mil-Ram Technology
Omega Engineering
Pfeiffer Vacuum
Process Tek
Restek Corp
Rockwell Automation
Rommelag USA
Seidenader Maschinenbau GmbH
Sepha Ltd
Siemens Process Industries + Drives
Sierra Instruments
Spectronics Corp
Victor Intl Mktg
WILCO AG

LIGHTING

AES Clean Technology
Andax Industries LLC
Clean Rooms Intl
Cree
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
Isolation Systems
Thomas Scientific
Ultrapure Technology

LOCKERS

Atmos-Tech Industries
Edgeco
Justrite
Laminar Flow
Liberty Industries
Remcon Plastics
Ultrapure Technology

MAINTENANCE SERVICES

ATAGO USA
AWS Bio-Pharma Technologies
E Instruments Intl
Eurest Services/ MicroComplete
Ludeca
Remi

Siemens Process Industries + Drives
Tri Tool

MARKERS

Marking Services
Veltek Assocs

MATERIAL HANDLING EQUIPMENT

Advance Tabco
Blue Thunder Technologies
De Dietrich Process Systems
Edgeco
EHS Solutions LLC
Erich Industries
ERIEZ, HQ
Excalibur Miretti Group LLC
Fab-Tech
Federal Equipment Co
Fenner Drives
Garvey Corp
GEA Process Engineering, GEA Pharma Systems
HEMCO Corp
Hurst Corp
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
Integrated Containment Systems
InterMetro Industries Corp
Interthor
Justrite
Liftomatic Material Handling
Lista Intl Corp
MagneMotion
METO Corp
Molded Fiber Glass Tray Co
New England Machinery
Remcon Plastics
Remi
Ronl
Safety Storage
Servolift
SG Magee Co
Siemens Process Industries + Drives
Sierra Instruments
Snyder Industries
UFP Technologies
UniTech Industries
Vibra Screw
WAGO Corp
Yamada America
Zed Industries

MATS, ADHESIVE, DISPOSABLE

Angstrom Supply
Blue Thunder Technologies
Cintas, Cleanroom Div
Connecticut Clean Room Corp
CSR Pharma Services
DCIC Tech
General Lab & Cleanroom Supply
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
ITW ALMA
ITW Texwipe
Justrite
Renco Corp
Shoe Inn
Ultrapure Technology

MATS, ADHESIVE, PERMANENT

Angstrom Supply
Connecticut Clean Room Corp

CSR Pharma Services
Dycem
Justrite
Klean Tack
Liberty Industries
Shoe Inn
Ultrapure Technology

MATS, FOAM

Blue Thunder Technologies
Connecticut Clean Room Corp
CSR Pharma Services
Dycem
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
Justrite
Klean Tack
Liberty Industries
Ultrapure Technology

MECHANICAL DESIGN SERVICES

AdvanceTEC
AES Clean Technology
Chemical Transfer Partnership Corp, (CTP Corp)
Fab-Tech
Mendel Co
MultiTherm LLC
Notch Mechanical Constructors
Quality Air Control
Technovation Systems

METERS, AIRFLOW

Atlantic Scale Co
CSR Pharma Services
Degree Controls
Hampshire Controls Corp
Hoffer Flow Controls
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
Isolation Systems
Kanomax USA
Krohne
MKS Instruments
Omega Engineering
Sensaphone
Sierra Instruments
Testo
Ultrapure Technology

METERS, HUMIDITY

Atlantic Scale Co
E Instruments Intl
EdgeTech Moisture + Humidity
Isolation Systems
Omega Engineering
Sensaphone
Sensitech
Testo
Two Dimensional Instruments
Ultrapure Technology

METERS, TEMPERATURE

Atlantic Scale Co
CSR Pharma Services
General Lab & Cleanroom Supply
Hampshire Controls Corp
Isolation Systems
Omega Engineering
Palmer Wahl Temperature Products
Sensaphone
Sensitech
Spigir Advanced Technologies
Testo

Two Dimensional Instruments
WIKA Instrument Corp

MICROBIAL SAMPLERS

Azbil North America, BioVigilant Div
BD Diagnostics
Biotest Diagnostics Corp
CSR Pharma Services
Hampshire Controls Corp
The Rovisys Co
Veltek Assocs

MICROSCOPE EQUIPMENT

ACCU-SCOPE
Bel-Art Products
Bioindustrial Products
Blue Thunder Technologies
Electron Microscopy Sciences
Fabreeka Intl
Hirox - USA
Thomas Scientific

MICROSCOPES

ACCU-SCOPE
Hirox - USA
Vision USA, a Dentrex Co

MINI ENVIRONMENTS

AdvanceTEC
Clean Rooms Intl
CleanZones LLC
Gerbig Engineering
International Portland Corp
Liberty Industries
LM Air Technology, Cleanroom & Lab Equipment
Process Tek
The Baker Co
TRAX Industrial
Curtains
Ultrapure Technology

MOBILE CLEAN ROOMS

AES Clean Technology
AWS Bio-Pharma Technologies
Extract Technology
HEMCO Corp
Laminar Flow
TRAX Industrial
Curtains

MOBILE ROOMS

Atmos-Tech Industries
Clean Rooms Intl
General Lab & Cleanroom Supply
Gerbig Engineering
Laminar Flow
LM Air Technology, Cleanroom & Lab Equipment
Nicos Group
Process Tek
Safety Storage
TRS Containers
Ultrapure Technology

MODULAR ROOMS

AdvanceTEC
AES Clean Technology
Atmos-Tech Industries
AWS Bio-Pharma Technologies
BIOQUELL, Life Sciences
Clean Rooms Intl

CleanZones LLC
Florida Cleanroom Systems
General Lab & Cleanroom Supply
Gerbig Engineering
Harris Environmental Systems
HEMCO Corp
Laminar Flow
LM Air Technology, Cleanroom & Lab Equipment
Nicos Group
R. Kraft
Safety Storage
Technovation Systems
TRAX Industrial
Curtains
TRS Containers

MOPS

Angstrom Supply
Connecticut Clean Room Corp
Contec
Dycem
General Lab & Cleanroom Supply
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
ITW Texwipe
Liberty Industries
Perflex Corp
Veltek Assocs

NOTEBOOKS

Angstrom Supply
Connecticut Clean Room Corp
Contec
Georgia-Pacific Corp
ITW Texwipe
Veltek Assocs
VWR Intl LLC

Ovens

Despatch - ITW EAE, Div of Illinois Tool Works
Electron Microscopy Sciences
Milestone
Nicos Group
The Grieve Corp
Werner Mathis USA, North America

PADS, PRESATURATED

DelStar Technologies
Porex Filtration group

PADS, SPILL-CONTROL

Blue Thunder Technologies
Contec
DelStar Technologies
Edgeco
General Econopak

PAPER, COMPUTER

Angstrom Supply
Blue Thunder Technologies
General Lab & Cleanroom Supply
Georgia-Pacific Corp
ITW Texwipe
Liberty Industries
Veltek Assocs

PAPER, COPIER

Angstrom Supply
Blue Thunder Technologies
Connecticut Clean Room Corp

Georgia-Pacific Corp
ITW Texwipe
Liberty Industries
Porex Filtration group

PAPER, GRAPH

Connecticut Clean Room Corp
Georgia-Pacific Corp
Ultrapure Technology
Veltek Assocs
VWR Intl LLC

PAPER, RECORDER

Blue Thunder Technologies
Cartex
Connecticut Clean Room Corp
Georgia-Pacific Corp
Palmer Wahl
Temperature Products
Ultrapure Technology

PAPER, WRITING

Blue Thunder Technologies
Connecticut Clean Room Corp
Contec
General Lab & Cleanroom Supply
Georgia-Pacific Corp
ITW Texwipe
Ultrapure Technology
Veltek Assocs

PARTICLE COUNTERS, AIR AND GAS

Angstrom Supply
Biotest Diagnostics Corp
Fluid Imaging Technologies
General Lab & Cleanroom Supply
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
Kanomax USA
Liberty Industries
Particle Sizing Systems
R. Kraft
Ultrapure Technology
Veltek Assocs

PARTICLE COUNTERS, LIQUID

Blue Thunder Technologies
Fluid Imaging Technologies
Micro Measurement Labs
Micromeritics Instrument Corp
Particle Sizing Systems
Ultrapure Technology

PARTICLE SIZE CLASSIFIERS

Fluid Imaging Technologies
Glen Mills
Hosokawa Micron Powder Systems
Micromeritics Instrument Corp
Minox/Eican
Particle Sizing Systems
Sturtevant

PASS-THROUGHS

AES Clean Technology
Atmos-Tech Industries
Bahnsen Environmental Specialties, An EMCOR Co

BIOQUELL, Life Sciences
Clean Rooms Intl
CleanZones LLC
Connecticut Clean Room Corp
F.P.S. Food and Pharma Systems srl
Gerbig Engineering
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
Kemutec
Liberty Industries
LM Air Technology, Cleanroom & Lab Equipment
Powers Scientific
The Baker Co
Ultrapure Technology

PENS

Angstrom Supply
Bel-Art Products
Connecticut Clean Room Corp
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
Ultrapure Technology
Veltek Assocs

PIPING

Asahi/America
Bergen Industrial Supply Co
Detectable Materials
GMP Systems
Ryan Specialty Valve Products LLC

PIPING SUPPORTS

Bergen Industrial Supply Co
GMP Systems
Ryan Herco Flow Solutions
Ryan Specialty Valve Products LLC

POWER SUPPLIES

Meech Static Eliminators USA
MKS Instruments

PREFABRICATED ROOMS

AES Clean Technology
Atmos-Tech Industries
AWS Bio-Pharma Technologies
Clean Rooms Intl
CleanZones LLC
FabOhio
Harris Environmental Systems
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
Isolation Systems
LM Air Technology, Cleanroom & Lab Equipment
R. Kraft
Safety Storage
SG Magee Co
TRS Containers

PREFILTERS

AirClean Systems
Angstrom Supply
Atmos-Tech Industries
Clean Rooms Intl
CleanZones LLC
Flanders Corp,
Containment Products
GMP Systems
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor

Isolation Systems
LM Air Technology, Cleanroom & Lab Equipment
Pall Life Sciences, Biopharmaceuticals
Plymovent NA
Ultrapure Technology

PRESSURE GAUGES

Ashcroft
CleanZones LLC
First Sensor
GE Sensing & Inspection Technologies
GMP Systems
Integrated Gas Services
Isolation Systems
MKS Instruments
Ryan Specialty Valve Products LLC
Siemens Process Industries + Drives
Spirax Sarco
Top Line Process Equipment Co
Two Dimensional Instruments
Viatran
WIKA Instrument Corp

PRINTED FORMS

Connecticut Clean Room Corp
Georgia-Pacific Corp
Liberty Industries
Veltek Assocs
VWR Intl LLC

PRINTING

Greydon
Matthews Intl Corp, Matthews Marking Systems
Veltek Assocs

PUMPS

Bel-Art Products
Fluid Metering
Fristam Pumps USA
GMP Systems
GoatThroat Pumps, Pumps & Systems
Goulds Pumps, ITT Corp
Intellitech
IVEK Corp
LEYBOLD
Met - Pro Global Pump Solutions - Fybroc
Met-Pro Global Pump Solutions - Sethco
Omega Engineering
Vanton Pump & Equipment Corp
Yamada America

RECORDERS, TEMPERATURE AND HUMIDITY

Carel USA LLC
Carltext
EdgeTech Moisture + Humidity
Eurotherm Brand, Invensys Operations Mgmt
Honeywell, Industrial Measurement & Controls Div
Isolation Systems
Liberty Industries
Mesa Labs
Omega Engineering
Palmer Wahl
Temperature Products
Process Tek
Rotronic
Sensaphone
Sensitech

Siemens Process Industries + Drives
Spirig Advanced Technologies
Testo
Two Dimensional Instruments
Yokogawa Corp of America

REFRIGERATORS

Bahnsen Environmental Specialties, An EMCOR Co
CARON Products Services
General Lab & Cleanroom Supply
Powers Scientific

RETROFIT SERVICES

3V TECH USA
AdvanceTEC
AWS Bio-Pharma Technologies
Clean Rooms Intl

ROBOTS

Anorad, Rockwell Automation
Clear Automation
Siemens Process Industries + Drives
Stäubli, Robotics

ROOMS, PORTABLE/ SOFTWALL

AdvanceTEC
AES Clean Technology
AWS Bio-Pharma Technologies
Clean Rooms Intl
CleanZones LLC
Connecticut Clean Room Corp
FabOhio
Gerbig Engineering
HEMCO Corp
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
ILC Dover
Isolation Systems
Laminar Flow
Liberty Industries
LM Air Technology, Cleanroom & Lab Equipment
Process Tek
R. Kraft
The Baker Co
TRAX Industrial
Curtains

SAFETY CABINETS

Bergen Industrial Supply Co
Edgeco
Flanders Corp, Containment Products
Flow Sciences
HEMCO Corp
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
Justrite
Kewaunee Scientific Corp
LM Air Technology, Cleanroom & Lab Equipment
Safety Storage
The Baker Co

SAFETY ENGINEERING SERVICES

Marking Services
pixon engineering AG
Siemens Process Industries + Drives

SEALANTS

ITW Polymers Sealants, Futura Coatings

SECURITY SYSTEMS

CustomVault
Siemens Process Industries + Drives

SHELVES

Advance Tabco
Bergen Industrial Supply Co
Connecticut Clean Room Corp
HEMCO Corp
Lista Intl Corp

SHOE CLEANERS, MANUAL

Angstrom Supply
Connecticut Clean Room Corp
Liberty Industries

SHOE CLEANERS, MOTORIZED

Angstrom Supply
Connecticut Clean Room Corp

SHOE CLEANERS, WALK-THROUGH

CSR Pharma Services

SHOE COVERS, DISPOSABLE

Angstrom Supply
Cintas, Cleanroom Div
Connecticut Clean Room Corp
CSR Pharma Services
DCIC Tech
FabOhio
General Econopak
General Lab & Cleanroom Supply
Nicos Group
Shoe Inn
ValuMax Disposable Apparel
Veltek Assocs

SHOE COVERS, POLYPROPYLENE

Cintas, Cleanroom Div
Connecticut Clean Room Corp
CSR Pharma Services
DCIC Tech
General Econopak
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
Liberty Industries
Nicos Group
Shoe Inn
ValuMax Disposable Apparel

SHOE COVERS, REUSABLE

Cintas, Cleanroom Div
Connecticut Clean Room Corp
CSR Pharma Services
General Econopak
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
SGC
Shoe Inn
VWR Intl LLC

SHOE COVERS, STERILE

Blue Thunder Technologies
Cintas, Cleanroom Div

Connecticut Clean Room Corp
CSR Pharma Services
General Econopak
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
Shoe Inn
Ultrapure Technology
VWR Intl LLC

SHOES

CSR Pharma Services
Nicos Group
Ultrapure Technology
VWR Intl LLC

SIGNS

Bergen Industrial Supply Co
Blue Thunder Technologies
General Lab & Cleanroom Supply
Liberty Industries
Marking Services
VWR Intl LLC

SLEEVE PROTECTORS, DISPOSABLE

Blue Thunder Technologies
Connecticut Clean Room Corp
CSR Pharma Services
DelStar Technologies
FabOhio
General Econopak
General Lab & Cleanroom Supply
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
Liberty Industries
Ultrapure Technology
ValuMax Disposable Apparel
Veltek Assocs

SLEEVE PROTECTORS, REUSABLE

Blue Thunder Technologies
CSR Pharma Services
DelStar Technologies
General Econopak
General Lab & Cleanroom Supply
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
Powder-Solutions
Ultrapure Technology

SLEEVE PROTECTORS, STERILE

General Econopak
General Lab & Cleanroom Supply
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
Powder-Solutions
Ultrapure Technology
Veltek Assocs

SMOCKS, DISPOSABLE

Cintas, Cleanroom Div
General Econopak
General Lab & Cleanroom Supply
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
Ultrapure Technology
UniClean, Div Unifirst Corp

For vendor contact information, see Company Directory section.

ValuMax Disposable
Apparel
VWR Intl LLC

SMOCKS, REUSABLE

Cintas, Cleanroom Div
General Econopak
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
SGC
Ultrapure Technology
UniClean,
Div Unifirst Corp

SMOCKS, STERILE

Angstrom Supply
Cintas, Cleanroom Div
General Econopak
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Liberty Industries
Ultrapure Technology
UniClean,
Div Unifirst Corp

SMOKE DETECTORS

Ultrapure Technology

SMOKE GUNS

Degree Controls
Liberty Industries
Ultrapure Technology

SMOKE STICKS

Degree Controls
Liberty Industries

SPILL-CONTROL AGENTS

Blue Thunder
Technologies
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor

SPONGES

Angstrom Supply
Bel-Art Products
Blue Thunder
Technologies
Contec
General Econopak
Perfex Corp
Thomas Scientific
Veltek Assocs
VWR Intl LLC

SPRINKLER SYSTEMS

Flexhead Industries

SQUEEGEES

Angstrom Supply
Blue Thunder
Technologies
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Liberty Industries
Perfex Corp

STATIONERY

Angstrom Supply
Blue Thunder
Technologies
Georgia-Pacific Corp
ITW Texwipe
Liberty Industries
Porex Filtration group
Ultrapure Technology

STEAM GENERATORS

AWS Bio-Pharma
Technologies
Getinge USA,
Life Science
Isolation Systems

Nicos Group
Reimers Electra Steam
Sioux Corp
Spirax Sarco
Sussman Electric
Boilers

STERILANTS

Angstrom Supply
Decon Labs
Isolation Systems
Thomas Scientific
Veltek Assocs

STERILIZERS, VHP

Angstrom Supply
BIOQUELL,
Life Sciences
Clordisys Solutions
ESCO Technologies,
Esco Pharma Factory
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Isolation Systems
Optima Machinery Corp

STOOLS

Blue Thunder
Technologies
General Lab &
Cleanroom Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Isolation Systems
Ultrapure Technology

STORAGE BINS

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JBT Corp
Accurate Chemical &
Scientific Corp
Bel-Art Products
Edgeco
General Lab &
Cleanroom Supply
Hurst Corp
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
InterMetro Industries
Corp
Isolation Systems
Liberty Industries
Lista Intl Corp
Molded Fiber Glass
Tray Co
Remcon Plastics
Snyder Industries

STORAGE TANKS

Bel-Art Products
Notch Mechanical
Constructors
Remcon Plastics
Ryan Herco Flow
Solutions
Snyder Industries

SWABS, COTTON

Allegro Industries
Angstrom Supply
Blue Thunder
Technologies
Contec
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
ITW Texwipe
Porex Filtration group
Sonic Packaging
Industries

SWABS, FOAM

Angstrom Supply
Blue Thunder
Technologies
Connecticut Clean
Room Corp

Contec
General Lab &
Cleanroom Supply
ITW Texwipe
Porex Filtration group
Sonic Packaging
Industries

SWABS, SYNTHETIC FIBER

Angstrom Supply
BD Diagnostics
Blue Thunder
Technologies
Connecticut Clean
Room Corp
Contec
General Lab &
Cleanroom Supply
ITW Texwipe
Porex Filtration group
Sonic Packaging
Industries

TABLES

Advance Tabco
Angstrom Supply
Clean Rooms Intl
Connecticut Clean
Room Corp
HEMCO Corp
InterMetro Industries
Corp
Laminar Flow
Liberty Industries

TABLETOPS

Advance Tabco
Angstrom Supply
Clean Rooms Intl
Isolation Systems
Liberty Industries

TAGS

Marking Services
Veltek Assocs

TAPE

Bel-Art Products
General Econopak
ITW ALMA
ITW Texwipe
Liberty Industries
Marking Services
Tampar
Technologies Ltd
Thomas Scientific

THERMOMETERS

Ashcroft
Bergen Industrial
Supply Co
E Instruments Intl
General Lab &
Cleanroom Supply
IKA Works,
Lab, Analytical and
Process Equipment
Marathon Products
Omega Engineering
Palmer Wahl
Temperature Products
Pyrometer Instrument
Co, PMA Process
Control Div
Testo
WIKA Instrument Corp
Yokogawa Corp
of America

THERMOMETERS

Ashcroft
Bergen Industrial
Supply Co
E Instruments Intl
General Lab &
Cleanroom Supply
IKA Works,
Lab, Analytical and
Process Equipment
Marathon Products
Omega Engineering
Palmer Wahl
Temperature Products
Pyrometer Instrument
Co, PMA Process
Control Div
Testo
WIKA Instrument Corp
Yokogawa Corp
of America

TIMERS

Spirig Advanced
Technologies

TOOLS, CLEANROOM

AdvanceTEC
Blue Thunder
Technologies
CSR Pharma Services

ITW Texwipe
Perfex Corp
Steritool
Tri Tool

TRAINING MATERIALS

Angstrom Supply
Cleanroom Mgmt
Assocs
CSR Pharma Services
ITW Texwipe
Liberty Industries
Micron Video Intl
Process Tek

TRAINING SERVICES

Cleanroom Mgmt
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CSR Pharma Services
Distek
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GE Sensing &
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Fluid Transfer Div
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Room Corp
Dycem
Liberty Industries
Nilfisk, Industrial
Vacuum Div
The Spencer Turbine Co
Tiger-Vac

VACUUM CLEANERS, BACKPACK

Connecticut Clean
Room Corp
General Lab &
Cleanroom Supply
Liberty Industries
MEECO
Nilfisk, Industrial
Vacuum Div
Tiger-Vac

VACUUM CLEANERS, WET

Connecticut Clean
Room Corp
Dycem
MEECO
Nilfisk, Industrial
Vacuum Div
The Spencer Turbine Co
Tiger-Vac
Vac-U-Max

VACUUM CONTROL EQUIPMENT

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Invensys Operations
Mgmt
GEA Tuchenhagen
North America
LEYBOLD
MEECO
MKS Instruments
The Spencer Turbine Co
Ultrapure Technology
Vac-U-Max

VACUUM SYSTEMS

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Artisan Industries
De Dietrich Process
Systems
Elmo Rietschle
Products, Industrial
Products Group

EXAIR Corp
LEYBOLD
Liberty Industries
MassVac
MEECO
Nilfisk, Industrial
Vacuum Div
Pfeiffer Vacuum
Piab
Pink GmbH
Thermosysteme
Ronl
The Spencer Turbine Co
Ultrapure Technology
Vac-U-Max
Wintek Corp

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General Lab &
Cleanroom Supply
Liberty Industries
MEECO
The Spencer Turbine Co

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Bel-Art Products
GEA Tuchenhagen
North America
Kemutec
METO Corp
MKS Instruments
Parker, Fluid Control Div
Plast-O-Matic Valves
Qosina
Remcon Plastics
Ryan Herco Flow
Solutions
Spirax Sarco
Strahman Valves
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Vac-U-Max

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Futura Coatings
Nicos Group

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Gerbig Engineering
HEMCO Corp
Laminar Flow
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Nicos Group
SG Magee Co
Ultrapure Technology
Westfield Sheet
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LM Air Technology,
Cleanroom & Lab
Equipment
Nicos Group
SG Magee Co
Ultrapure Technology
Westfield Sheet
Metal Works

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FabOhio
Gerbig Engineering
HEMCO Corp
Nicos Group
SG Magee Co
TRAX Industrial
Curtains
Ultrapure Technology

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Clean Rooms Intl
CleanZones LLC
Gerbig Engineering
Liberty Industries
LM Air Technology,
Cleanroom & Lab
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Nicos Group
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Curtains
Ultrapure Technology

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Azbil North America,
BioVigilant Div
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General Econopak
General Lab & Cleanroom Supply
ITW Texwipe

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Porex Filtration group
Sonic Packaging Industries
Ultrapure Technology

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UFF Technologies
Ultrapure Technology

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Porex Filtration group
Ultrapure Technology

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General Lab & Cleanroom Supply
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Ultrapure Technology
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Blue Thunder Technologies
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Sonic Packaging Industries
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Georgia-Pacific Corp
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/ Supply Distributor
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Ultrapure Technology

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DCIC Tech
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Hutchins & Hutchins, Cleanroom Equipment
/ Supply Distributor
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Porex Filtration group
Sonic Packaging Industries
Ultrapure Technology

WIPERS, STERILE
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Cintas, Cleanroom Div
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Hutchins & Hutchins, Cleanroom Equipment
/ Supply Distributor
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Porex Filtration group
Ultrapure Technology
Veltek Assocs

WRAPAROUND COATS, DISPOSABLE
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Connecticut Clean Room Corp
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Hutchins & Hutchins, Cleanroom Equipment
/ Supply Distributor
Liberty Industries

WRAPAROUND COATS, REUSABLE
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Cintas, Cleanroom Div
Connecticut Clean Room Corp
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General Econopak
General Lab & Cleanroom Supply
Hutchins & Hutchins, Cleanroom Equipment
/ Supply Distributor
Liberty Industries

WRAPAROUND COATS, STERILE
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Connecticut Clean Room Corp
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General Econopak
General Lab & Cleanroom Supply
Hutchins & Hutchins, Cleanroom Equipment
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WRITING SUPPLIES
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General Lab & Cleanroom Supply
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Mettler Toledo PCE,
Product Inspection
Mettler-Toledo
Hi-Speed, Product
Inspection

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APD Systems
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Clear Automation
Cozzoli Machine Co
Federal Equipment Co
FP Developments
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groninger USA L.L.C
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IMA North America
Intellitech
Kaps-All Packaging
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MAR Macchine Automatiche
Riempitrici SPA
Michael Benalt
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Nedco Conveyor
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Optima Machinery Corp
Seidenader
Maschinenbau GmbH
Zed Industries

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HealthStar
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Intellitech
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Systems
Keith Machinery Corp
MAR Macchine Automatiche
Riempitrici SPA
Modular Packaging
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Nedco Conveyor
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NJM Packaging
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Seidenader
Maschinenbau GmbH
Zed Industries

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APD Systems
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Systems
Intellitech
Kaps-All Packaging
Systems
Keith Machinery Corp
Key Intl
MAR Macchine Automatiche
Riempitrici SPA
Michael Benalt
Modular Packaging
Systems
Nedco Conveyor
Technologies
New England Machinery
NJM Packaging
Optima Machinery Corp
ProMach, Kleenline
Symetix
Zed Industries

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Rubber Fab

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Federal Equipment Co

ADHESIVES

Adhesives Research
Chemsultants Intl
Hexion, Epoxy, Phenolic
& Coating Resins Div
ITW Polymers Adhesives
Momentive Performance
Materials
Squid Ink Mfg
WIPOTEC-OCS

ADHESIVES, SILICONE

Adhesives Research
Chemsultants Intl
Momentive Performance
Materials
RAUMEDIC
Rubber Fab

AEROSOL CANS

Adelphi Healthcare
Packaging

ALUMINUM SEALS

Adelphi Healthcare
Packaging
Comar
Constantia Flexibles
Datwyler Pharma
Packaging
General Lab &
Cleanroom Supply
J.G. Finneran Assocs
Kaps-All Packaging
Systems
Optima Machinery Corp
Tekni-Plex
West Pharmaceutical
Services
Wheaton Industries,
Wheaton Science
Packaging

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Technologies
Bausch+Stroebel
Machine Co
Bioscience
Capmatic Ltd
Champion Trading Corp
Cozzoli Machine Co
Daiichi Jitsugyo (America),
Pharmaceutical Div
ESCO Technologies,
Esco Pharma Factory
Federal Equipment Co
IMA North America
Kaps-All Packaging
Systems
Keith Machinery Corp
MagneMotion
Michael Benalt
Pharmasystems
**Unither
Pharmaceuticals**
Weiler Engineering

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Bioscience
Cozzoli Machine Co
Daiichi Jitsugyo (America),
Pharmaceutical Div
Federal Equipment Co
IMA North America
MagneMotion
MG America
Molded Fiber Glass
Tray Co
Multivac
Process Tek
Sepha Ltd
Uhlmann Packaging
Systems LP
Zed Industries

AMPUL PRINTING EQUIPMENT

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Technologies
Bausch+Stroebel
Machine Co
Cozzoli Machine Co
Federal Equipment Co
Matthews Intl Corp,
Matthews Marking
Systems

AMPUL SEALING EQUIPMENT

Auto-Mate
Technologies LLC
Bausch+Stroebel
Machine Co
Bioscience
Cozzoli Machine Co
Daiichi Jitsugyo (America),
Pharmaceutical Div
HealthStar
Kaps-All Packaging
Systems
Process Tek
**Unither
Pharmaceuticals**

AMPULS

Adelphi Healthcare
Packaging
Bioscience
Daiichi Jitsugyo (America),
Pharmaceutical Div
EquipNet
Gerresheimer AG,
Communication
James Alexander Corp

Kimble Chase, Life
Sciences & Research
Process Tek
SCHOTT North America,
Pharmaceutical
Packaging
TricorBraun
Weiler Engineering
Wheaton Industries,
Wheaton Science
Packaging

ASEPTIC FILLING EQUIPMENT, LIQUID

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Technologies
Bausch Advanced
Technologies
Bausch+Stroebel
Machine Co
Daiichi Jitsugyo (America),
Pharmaceutical Div
ESCO Technologies,
Esco Pharma Factory
FP Developments
groninger USA L.L.C
MagneMotion
Optima Machinery Corp
OPTIMA pharma GmbH
Pharmasystems
Romaco North American
**Unither
Pharmaceuticals**
Weiler Engineering

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Bausch Advanced
Technologies
Bossar Packaging
Hutchins & Hutchins,
Cleanroom Equipment /
Supply Distributor
ILAPAK
KNF Corp
Multivac
OK Sealer
Optima Machinery Corp
Rennco, Pro Mach

BAG CLOSURES

Bel-Art Products
Bossar Packaging
ILC Dover
OK Sealer

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American-Newlong
Automation Products,
Dynatrol®
AWS Bio-Pharma
Technologies
Batching Systems
Bausch Advanced
Technologies
Black Forest Container
Systems
Bossar Packaging
Federal Equipment Co
Filamatic, National
Instrument LLC
George Gordon Assocs
HealthStar
Hosokawa Micron
Powder Systems
ILAPAK
ILC Dover
Kaps-All Packaging
Systems
OK Sealer
Optima Machinery Corp
Per-Fil Industries

Spee-Dee Packaging
Machinery
Spiroflow Systems
Vibra Screw

BAGS, BAG-IN-BOX

Black Forest Container
Systems
Bossar Packaging
F.P.S. Food and Pharma
Systems srl
Filamatic, National
Instrument LLC
ILC Dover
KNF Corp
Lonza
OK Sealer
Pearson Packaging
Systems
Prodo-Pak Corp
**Tri-Cor Flexible
Packaging**
TricorBraun

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Bausch Advanced
Technologies
Bemis, Bemis Healthcare
Packaging
ILC Dover
KNF Corp
Lonza
OK Sealer
RAUMEDIC
**Tri-Cor Flexible
Packaging**

BAGS, POLYETHYLENE

Admiral Packaging
Advanced Scientific
Bausch Advanced
Technologies
Bel-Art Products
Bemis, Bemis Healthcare
Packaging
Globe Scientific
Hutchins & Hutchins,
Cleanroom Equipment /
Supply Distributor
KNF Corp
Liberty Industries
Lonza
Tampar
Technologies Ltd
TOLAS Healthcare
Packaging
**Tri-Cor Flexible
Packaging**

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HealthStar
Marking Services
NJM Packaging
Omega Design Corp

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Life Sciences Div
Label Mill
Marking Services
NJM Packaging
NovaVision
OK Sealer
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Processing Systems
SSE Technologies
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Solutions
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Mettler Toledo PCE,
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NJM Packaging
OK Sealer
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Systems LP
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Process Tek
Rommelag USA
Unither
Pharmaceuticals
Weiler Engineering

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Bausch+Stroebel
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Machines
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Systems LP
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Dalemark Industries
FP Developments
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Omega Design Corp
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Wheaton Industries,
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Tray Co
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Snyder Industries

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Per-Fil Industries
Spee-Dee Packaging Machinery

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Bausch Advanced Technologies
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Champion Trading Corp
Clear Automation
Cozzoli Machine Co
CroPharm
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ESS Technologies
Federal Equipment Co
groninger USA L.L.C
HealthStar
IMA North America
Intellitech
Kaps-All Packaging Systems

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Key Intl
MagneMotion
MAR Macchine

Automatiche
Riempitrici SPA
Modular Packaging Systems
New England Machinery Systems
Newman Labeling Systems
Optima Machinery Corp
Romaco North American
Shibuya Hoppmann Corp
Zalkin, Zalkin Americas

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Comar
Drug Plastics & Glass Co
Gerresheimer AG, Communication
Kaps-All Packaging Systems
O.Berk Co, Healthcare Packaging Group
TricorBraun

CAPS, LINERS

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Constantia Flexibles
Drug Plastics & Glass Co
Gerresheimer AG, Communication
O.Berk Co, Healthcare Packaging Group
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Pawling Engineered Products
Reiss Mfg, Rensil
Rubber & Kentron Plastics Div
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WL Gore & Assocs, Gore PharmBIO Products

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Capmatic Ltd
Comar
Flex Products
O.Berk Co, Healthcare Packaging Group
Parkway Plastics
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CAPS, MOLDED PLASTIC

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Bel-Art Products
Capmatic Ltd
Comar
Drug Plastics & Glass Co
Flex Products
Gerresheimer AG, Communication
Globe Scientific
IntraPac

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Parkway Plastics
RAUMEDIC
TricorBraun
Wheaton Industries, Wheaton Science Packaging

CAPS, OVERCAPS

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Flex Products
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CAPS, TAMPER-RESISTANT

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Drug Plastics & Glass Co
Enercon Industries Corp
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Kaps-All Packaging Systems
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TricorBraun
Wheaton Industries, Wheaton Science Packaging

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Mendel Co
MG America
Qualicaps
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Torpac

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IMA North America
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Key Intl
MagneMotion
Mendel Co
MG America
Modular Packaging Systems
Qualicaps
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Torpac
Wipotec Technology North America

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Tray Co
Qualicaps
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Wilson Tool Intl
Zed Industries

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MAR Macchine
Automatiche
Riempitrici SPA
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Bossar Packaging
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Contract
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Howell Packaging
RONDO-PAK

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Clear Automation
Douglas Machine
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IMA North America
Keith Machinery Corp
Mettler Toledo PCE, Product Inspection

MG America

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Schneider Packaging Equipment
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Industries + Drives
TCP Reliable
Wheaton Industries, Wheaton Science Packaging
Zed Industries

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Cotton Co
O.Berk Co, Healthcare Packaging Group

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Products

DIE-CUT LIDS

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Plastics Div
Zed Industries

DROPPERS

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Globe Scientific
Kaps-All Packaging
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Wheaton Industries,
Wheaton Science
Packaging

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ILC Dover
Ryan Herco Flow
Solutions

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Ryan Herco Flow
Solutions

DRUMS, COMPOSITE

MO Industries

DRUMS, FLUOROPOLYMER-LINED

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Solutions

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Process Solutions
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OK Sealer
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Per-Fil Industries
Prodo-Pak Corp
Shibuya Hoppmann
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Spiroflow Systems

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Machinery

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NJM Packaging
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Qualicaps
Spee-Dee Packaging
Machinery
Spiroflow Systems
Vac-U-Max

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Efficient Automated
Machine Corp
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Esco Pharma Factory
ESS Technologies
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Instrument LLC
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HealthStar
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Intellitech
IVEK Corp
Kaps-All Packaging
Systems
Kemwall Distrs Ltd
MagneMotion
MAR Macchine
Automatische
Riempitrici SPA
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OPTIMA pharma GmbH
Pall Life Sciences,
Biopharmaceuticals
Prodo-Pak Corp
Qualicaps
Romaco North American
Rommelag USA

Shibuya Hoppmann
Corp
Weiler Engineering

FILLING MACHINES, VACUUM

Aspect Automation
Capmatic Ltd
Champion Trading Corp
Cozzoli Machine Co
Efficient Automated
Machine Corp
groninger USA L.L.C
HealthStar
IMA North America
MAR Macchine
Automatische
Riempitrici SPA
NJM Packaging
Optima Machinery Corp
OPTIMA pharma GmbH
Vac-U-Max

FILM, HEAT SHRINKABLE

Klockner Pentaplast
KNF Corp

FILM, HEAT SHRINKABLE PVC

Bemis, Bemis
Healthcare Packaging
Klockner Pentaplast
KNF Corp

FILM, POLYPROPYLENE

Admiral Packaging
Bemis, Bemis
Healthcare Packaging
Constantia Flexibles
DelStar Technologies
Glenroy
Klockner Pentaplast
Matthews Intl Corp,
Matthews Marking
Systems
TOLAS Healthcare
Packaging
**Tri-Cor Flexible
Packaging**

FILM, PVC

Bemis, Bemis
Healthcare Packaging
Constantia Flexibles
FabOhio
Key Intl
Klockner Pentaplast
KNF Corp
RAUMEDIC
Tekni-Plex
TRAX Industrial
Curtains

FILMS, BARRIER, COATED AND LAMINATED

Adhesives Research
Admiral Packaging
Bemis, Bemis
Healthcare Packaging
Constantia Flexibles
DelStar Technologies
FabOhio
Glenroy
ILC Dover
Klockner Pentaplast
KNF Corp
Tekni-Plex
TOPAS Advanced
Polymers
TRAX Industrial
Curtains

FILMS, BARRIER, LAMINATED

Admiral Packaging
Bemis, Bemis
Healthcare Packaging
Constantia Flexibles
DelStar Technologies
FabOhio
Glenroy
Klockner Pentaplast
KNF Corp

Mylan Technologies
Rommelag USA
TOLAS Healthcare
Packaging
**Tri-Cor Flexible
Packaging**

FILMS, BARRIER, PVC COATED

Bemis, Bemis
Healthcare Packaging
Constantia Flexibles
FabOhio
Glenroy
Klockner Pentaplast
KNF Corp
Tekni-Plex
TRAX Industrial
Curtains

FILMS, BARRIER, PVDC COATED AND LAMINATED

Admiral Packaging
Bemis, Bemis
Healthcare Packaging
Constantia Flexibles
Glenroy
Klockner Pentaplast
KNF Corp
Reiss Mfg, Ronsil
Rubber & Kentron
Plastics Div
Tekni-Plex

FILMS, PRINTING

Admiral Packaging
Bemis, Bemis
Healthcare Packaging
DelStar Technologies
Glenroy
Klockner Pentaplast
Matthews Intl Corp,
Matthews Marking
Systems
TOLAS Healthcare
Packaging
**Tri-Cor Flexible
Packaging**
Weber Packaging
Solutions

FLEXIBLE STERILE PACKAGING

Advanced Scientific
Bemis, Bemis
Healthcare Packaging
Constantia Flexibles
Cozzoli Machine Co
DelStar Technologies
ILC Dover
KNF Corp
Lonza
Prodo-Pak Corp
Tekni-Plex
TOLAS Healthcare
Packaging
UFP Technologies
Zed Industries

FOAM

Adhesives Research
TCP Reliable
UFP Technologies

FORM-FILL-SEAL MACHINES

Aspect Automation
Bossar Packaging
Capmatic Ltd
Daichi Jitsugyo (America),
Pharmaceutical Div
Douglas Machine
HealthStar
IMA North America
MG America
Modular Packaging
Systems
Multivac
Ossid, Div Pro Mach
Polypack
Process Tek
Prodo-Pak Corp

Sepha Ltd
**Unither
Pharmaceuticals**
Weiler Engineering
Zed Industries

GELATIN CAPSULES, LIQUID FILLED, MG America

Qualicaps

HEAT SEAL PACKAGING MACHINES

Aspect Automation
Auto-Mate
Technologies LLC
Bossar Packaging
Contract
Pharmaceutical Corp
Dalton Electric
Heating Co
Enercon Industries Corp
Keith Machinery Corp
KNF Corp
PDC Intl Corp
Renoco, Pro Mach
Romaco North American
Testing Machines
Zed Industries

HEAT TUNNELS

Axon Styrotech,
Div Pro Mach
Capmatic Ltd
Champion Trading Corp
Douglas Machine
Federal Equipment Co
groninger USA L.L.C
Keith Machinery Corp
Modular Packaging
Systems
Optima Machinery Corp
PDC Intl Corp

HIGH DENSITY POLYETHYLENE (HDPE)

Bemis, Bemis
Healthcare Packaging

HOSE, PLASTIC

AdvantaPure
WL Gore & Assocs,
Gore PharmBIO
Products

HOT STAMPING FOIL

Dalemak Industries
Gem Marking Coding
Greydon
Griffin-Rutgers Co

INK, FDA-LISTED

Bending Light Solutions
Greydon
Hapa & Laetus

INK, NONTOXIC

Bending Light Solutions
Gem Marking Coding
Greydon
Squid Ink Mfg

INSERTERS, BUTYL STOPPER

Capmatic Ltd

INSERTS/OUTSERTS

3C Packaging
Capmatic Ltd
Contract
Pharmaceutical Corp
Daichi Jitsugyo (America),
Pharmaceutical Div
G&K-Vijuk Intl
Global Vision
RONDO-PAK

INSPECTION DEVICES

AC Compacting LLC
 Bausch+Stroebel Machine Co
 Capmatic Ltd
 Cognex Corp
 Contract
 Pharmacal Corp
 Daiichi Jitsugyo (America), Pharmaceutical Div
 Driam USA
 Emhart Glass Mfg
 ERIEZ, HQ
 Fortress Technology
 FSI Technologies
 Global Vision
 Hapa & Laetus
 Integrated Packaging Systems
 ISRA Surface Vision
 Kaps-All Packaging Systems
 Lake Image Systems
 Lenox Instrument Co
 Loma Systems, an ITW Co
 NJM Packaging
 Proditec
 Product Identification Processing Systems
 PTI Packaging Technologies & Inspection LLC
 Qualicaps
 RAM Optical Instrumentation (RAM)
Robert Bosch Packaging Technology, Pharmaceutical Operations
 Seidenader Maschinenbau GmbH
 Sepha Ltd
 Siemens Process Industries + Drives
 SSE Technologies
 Tri-Tronics Co
 Victor Intl Mktg
 WIPOTEC-OCS

JAR PRINTING EQUIPMENT

Control Micro Systems
 Dalemark Industries
 Griffin-Rutgers Co
 Keith Machinery Corp

JARS, GLASS

Adelphi Healthcare Packaging
 Chem Flowtronics
 Contract
 Pharmacal Corp
 Kimble Chase, Life Sciences & Research
 O.Berk Co, Healthcare Packaging Group
 TricorBraun

JARS, PLASTIC

Adelphi Healthcare Packaging
 Alpha Packaging
 Ball
 Bel-Art Products
 Comar
 Drug Plastics & Glass Co
 Flex Products
 Globe Scientific
 IntraPac
 O.Berk Co, Healthcare Packaging Group
 Parkway Plastics
 TricorBraun

LABEL CODING EQUIPMENT

Bending Light Solutions
 Capmatic Ltd
 Contract
 Pharmacal Corp

Control Micro Systems
 Dalemark Industries
 G&K-Vijuk Intl
 Gem Marking Coding
 Greydon
 Griffin-Rutgers Co
 IMA North America
 Kaps-All Packaging Systems
 Keith Machinery Corp
 Label Mill
 Matthews Intl Corp, Matthews Marking Systems
 Mettler Toledo PCE, Product Inspection
 Multivac
 NJM Packaging
 Optima Machinery Corp
 Product Identification Processing Systems
 SSE Technologies
 Weber Packaging Solutions

LABEL DATING EQUIPMENT

Auto-Mate Technologies LLC
 Capmatic Ltd
 Clear Automation
 Contract
 Pharmacal Corp
 Control Micro Systems
 Dalemark Industries
 enLabel Global Services, Life Sciences Div
 Griffin-Rutgers Co
 Kaps-All Packaging Systems
 Keith Machinery Corp
 Label Mill
 Matthews Intl Corp, Matthews Marking Systems
 Multivac
 NJM Packaging
 Re-Pack
 SSE Technologies
 Weber Packaging Solutions

LABEL DISPENSING EQUIPMENT

Auto-Mate Technologies LLC
 Bausch Advanced Technologies
 Blue Thunder Technologies
 Capmatic Ltd
 Contract
 Pharmacal Corp
 Dalemark Industries
 G&K-Vijuk Intl
 Griffin-Rutgers Co
 IMA North America
 Kaps-All Packaging Systems
 Keith Machinery Corp
 Label Mill
 Modular Packaging Systems
 Multivac
 NJM Packaging
 PDC Intl Corp
 Re-Pack
 Shibuya Hoppmann Corp
 SSE Technologies
 Weber Packaging Solutions

LABEL GLUING EQUIPMENT

NJM Packaging

LABEL INSPECTION EQUIPMENT

Auto-Mate Technologies LLC
 Bausch Advanced Technologies

Capmatic Ltd
 Clear Automation
 Emhart Glass Mfg
 enLabel Global Services, Life Sciences Div
 FSI Technologies
 Global Vision
 Hapa & Laetus
 HealthStar
 ISRA Surface Vision
 Kaps-All Packaging Systems
 Label Mill
 Lake Image Systems
 Mettler Toledo PCE, Product Inspection
 Mettler-Toledo
 Hi-Speed, Product Inspection
 NJM Packaging
 Omega Design Corp
 Optima Machinery Corp
 Seidenader Maschinenbau GmbH
 SSE Technologies
 Tri-Tronics Co
 WIPOTEC-OCS

LABEL REMOVAL EQUIPMENT

Blue Thunder Technologies
 Hurst Corp

LABELING EQUIPMENT, DIRECT TRANSFER

Accraply, A Barry-Wehmiller Packaging Co
 Auto-Mate Technologies LLC
 Capmatic Ltd
 Daiichi Jitsugyo (America), Pharmaceutical Div
 Dalemark Industries
 G&K-Vijuk Intl
 Griffin-Rutgers Co
 Groninger USA L.L.C
 HealthStar
 IMA North America
 Kaps-All Packaging Systems
 Label Mill
 Marking Services
 Modular Packaging Systems
 Multivac
 Newman Labeling Systems
 NJM Packaging
 Optima Machinery Corp
 Pharmasystems
 Shibuya Hoppmann Corp
 SSE Technologies
 Weber Packaging Solutions
 WIPOTEC-OCS

LABELING MACHINERY

Accraply, A Barry-Wehmiller Packaging Co
 Auto-Mate Technologies LLC
 Automation Systems
 Interconnect
 Capmatic Ltd
 Daiichi Jitsugyo (America), Pharmaceutical Div
 Dalemark Industries
 G&K-Vijuk Intl
 Gem Marking Coding
 Griffin-Rutgers Co
 IMA North America
 Kaps-All Packaging Systems
 Label Mill
 Mettler Toledo PCE, Product Inspection
 Multivac

Newman Labeling Systems
 Optima Machinery Corp
 PDC Intl Corp
 Re-Pack
 SSE Technologies
 Weber Packaging Solutions

LABELS, CLINICAL

Citation Clinical
 Labeling Systems
 Clinical Systems
 Contract
 Pharmacal Corp
 Global Vision
 NovaVision
 Schreiner MediPharm
 SSE Technologies
 Valley Forge Tape & Label Co
 Weber Packaging Solutions

LABELS, CLINICAL BOOKLET LABELS

Citation Clinical
 Labeling Systems
 Clinical Systems
 Label Mill
 RONDO-PAK
 Schreiner MediPharm
 Weber Packaging Solutions

LABELS, COMPUTER-CODED

Blue Thunder Technologies
 Citation Clinical
 Labeling Systems
 Clinical Systems
 enLabel Global Services, Life Sciences Div
 ITW ALMA
 Mettler Toledo PCE, Product Inspection
 Product Identification Processing Systems
 Schreiner MediPharm
 SSE Technologies
 Weber Packaging Solutions

LABELS, FOIL

Citation Clinical
 Labeling Systems
 Label Mill
 Marking Services
 NovaVision
 Schreiner MediPharm
 Tamper Technologies Ltd
 TricorBraun
 Valley Forge Tape & Label Co
 Weber Packaging Solutions

LABELS, HEAT-SHRINKABLE

Axon Styrotech, Div Pro Mach
 Blue Thunder Technologies
 Capmatic Ltd
 Klockner Pentaplast
 Marking Services
 TricorBraun

LABELS, HOT-STAMPED

Auto-Mate Technologies LLC
 Blue Thunder Technologies
 Kaps-All Packaging Systems
 Label Mill
 TricorBraun

Valley Forge Tape & Label Co
 Weber Packaging Solutions

LABELS, METAL

Label Mill
 Marking Services
 TricorBraun
 Valley Forge Tape & Label Co

LABELS, PAPER

3C Packaging
 Auto-Mate Technologies LLC
 Bel-Art Products
 Blue Thunder Technologies
 Citation Clinical
 Labeling Systems
 Kaps-All Packaging Systems
 Label Mill
 NovaVision
 Product Identification Processing Systems
 Schreiner MediPharm
 TricorBraun
 Valley Forge Tape & Label Co
 Weber Packaging Solutions

LABELS, PLASTIC SLEEVE

Axon Styrotech, Div Pro Mach
 Blue Thunder Technologies
 Capmatic Ltd
 Klockner Pentaplast
 Marking Services
 TricorBraun

LABELS, PRESSURE-SENSITIVE

3C Packaging
 Adhesives Research
 Auto-Mate Technologies LLC
 Citation Clinical
 Labeling Systems
 Contract
 Pharmacal Corp
 EAM
 Griffin-Rutgers Co
 Groninger USA L.L.C
 ITW ALMA
 Kaps-All Packaging Systems
 Klockner Pentaplast
 Label Mill
 Marking Services
 NJM Packaging
 Product Identification Processing Systems
 Schreiner MediPharm
 Tamper Technologies Ltd
 TricorBraun
 Valley Forge Tape & Label Co
 Weber Packaging Solutions

LABELS, SHIPPING

Alpha Packaging
 Label Mill
 NovaVision
 Product Identification Processing Systems
 SSE Technologies
 Valley Forge Tape & Label Co
 Weber Packaging Solutions

LABELS, SILK SCREEN-PRINTED

Label Mill
 TricorBraun

Weber Packaging Solutions
 WIPOTEC-OCS

LABELS, TAMPER-EVIDENT

3C Packaging
 Auto-Mate Technologies LLC
 Axon Styrotech, Div Pro Mach
 Capmatic Ltd
 Citation Clinical
 Labeling Systems
 Clinical Systems
 Contract
 Pharmacal Corp
 Kaps-All Packaging Systems
 Klockner Pentaplast
 Label Mill
 NJM Packaging
 NovaVision
 Schreiner MediPharm
 SSE Technologies
 Tamper Technologies Ltd
 TricorBraun
 Valley Forge Tape & Label Co
 Weber Packaging Solutions
 WIPOTEC-OCS

LEAFLET INSERTING EQUIPMENT

Capmatic Ltd
 Contract
 Pharmacal Corp
 Daiichi Jitsugyo (America), Pharmaceutical Div
 Efficient Automated
 Machine Corp
 Federal Equipment Co
 G&K-Vijuk Intl
 HealthStar
 IMA North America
 Modular Packaging Systems
 NJM Packaging

LEAFLET OUTSERTING EQUIPMENT

Capmatic Ltd
 Champion Trading Corp
 Daiichi Jitsugyo (America), Pharmaceutical Div
 G&K-Vijuk Intl
 IMA North America
 Modular Packaging Systems
 NJM Packaging

LIQUID FILLERS, ABRASIVE PRODUCTS

Aspect Automation
 Bausch Advanced Technologies
 Capmatic Ltd
 Cozzoli Machine Co
 Filamatic, National
 Instrument LLC
 Groninger USA L.L.C
 HealthStar
 IVEK Corp
 Kaps-All Packaging Systems
 Oden Machinery
 Optima Machinery Corp
 OPTIMA pharma GmbH
 Prodo-Pak Corp

Unither Pharmaceuticals

LIQUID FILLERS, STERILIZATION-IN-PLACE

Aspect Automation
 AWS Bio-Pharma
 Technologies
 Capmatic Ltd
 Cozzoli Machine Co

For vendor contact information, see Company Directory section.

Efficient Automated Machine Corp
Filamatic, National Instrument LLC
groninger USA L.L.C
IMA North America
MAR Macchine Automatische Riemplitrici SPA
Modular Packaging Systems
Oden Machinery
Optima Machinery Corp
OPTIMA pharma GmbH
Oyster Bay Pump Works
Process Tek
Prodo-Pak Corp
Shibuya Hoppmann Corp
Unither Pharmaceuticals
Weiler Engineering

LIQUID FILLERS, SUSPENSIONS

Aspect Automation
Auto-Mate Technologies LLC
Capmatic Ltd
Cozzoli Machine Co
Efficient Automated Machine Corp
Filamatic, National Instrument LLC
groninger USA L.L.C
HealthStar
Integrated Packaging Systems
IVEK Corp
Kaps-All Packaging Systems
MAR Macchine Automatische Riemplitrici SPA
Oden Machinery
Optima Machinery Corp
Oyster Bay Pump Works
Prodo-Pak Corp
Weiler Engineering

MARKING EQUIPMENT, BOTTOM CODING

Bell-Mark
Control Micro Systems
Dalemark Industries
Gallus
Gem Marking Coding
Greydon
Griffin-Rutgers Co
groninger USA L.L.C
Kaps-All Packaging Systems
Label Mill
Matthews Intl Corp, Matthews Marking Systems
Mettler Toledo PCE, Product Inspection
Mettler-Toledo Hi-Speed, Product Inspection
Multivac
Squid Ink Mfg
Weber Packaging Solutions

MARKING EQUIPMENT, CYLINDRICAL CONTAINERS

Bell-Mark
Control Micro Systems
Dalemark Industries
Gem Marking Coding
Greydon
Griffin-Rutgers Co
groninger USA L.L.C
Label Mill
Matthews Intl Corp, Matthews Marking Systems

Squid Ink Mfg
Weber Packaging Solutions

MEDICAL DEVICES

Comar
Gerresheimer AG, Communication
IPS-Integrated Project Services LLC
Uhlmann Packaging Systems LP

MEDICAL DEVICE MANUFACTURING

Comar
Gerresheimer AG, Communication
IPS-Integrated Project Services LLC
Uhlmann Packaging Systems LP

MOISTURE BARRIER PACKAGING MATERIAL

Ball
Bemis, Bemis Healthcare Packaging Contract
Pharmaceutical Div
Datwyler Pharma Packaging
Klockner Pentaplast Multisorb Technologies
TOLAS Healthcare Packaging
TOPAS Advanced Polymers
WL Gore & Assocs, Gore PharmBIO Products

OUTER PACKAGING LABELING/CODING EQUIP

Accraply, A Barry-Wehmillier Packaging Co
G&K-Vjulk Intl
Griffin-Rutgers Co
Iconotech
Label Mill

OVERCAPPERS

Auto-Mate Technologies LLC
Capmatic Ltd
Cozzoli Machine Co
Filamatic, National Instrument LLC
groninger USA L.L.C
Kaps-All Packaging Systems
New England Machinery
Optima Machinery Corp

OVERWRAPPING MACHINES

Capmatic Ltd
Cermex
Douglas Machine
ILAPAK
IMA North America
MG America
Modular Packaging Systems
Omega Design Corp
Ossid, Div Pro Mach
Polypack

PACKAGING BOARDS

Zed Industries

PACKAGING MACHINES

A-B-C Packaging Machine Corp
ACG North America LLC
Batching Systems

Bossar Packaging
Capmatic Ltd
Cermex
Contract
Pharmacoal Corp
Cozzoli Machine Co
Daiichi Jitsugyo (America), Pharmaceutical Div
Dalton Electric
Heating Co
Douglas Machine
EAM
Efficient Automated Machine Corp
ESS Technologies
Filamatic, National Instrument LLC
groninger USA L.L.C
ILAPAK
IMA North America
Integrated Packaging Systems
Kaps-All Packaging Systems
Key Intl
Label Mill
MG America
Modular Packaging Systems
Multivac
New England Machinery
Pharm Packaging
OK Sealer
Omega Design Corp
Optima Machinery Corp
Ossid, Div Pro Mach
PDC Intl Corp
Pearson Packaging Systems
Per-Fil Industries
Polypack
Rennco, Pro Mach
Rommelay USA
Schneider Packaging Equipment
Sepha Ltd
Uhlmann Packaging Systems LP
Weiler Engineering
WIPOTEC-OCS
Zed Industries

PALLET COVERS, GMP

Cold Chain Technologies
Edgeco
FabOhio
Tri-Cor Flexible Packaging

PALLETIZING AND DEPALLETIZING EQUIPMENT

A-B-C Packaging Machine Corp
American-Newlong
Cermex
Contract
Pharmacoal Corp
Douglas Machine
Edgeco
ESS Technologies
IMA North America
Interthor
MG America
Pearson Packaging Systems
Schneider Packaging Equipment
Spiroflow Systems
Uhlmann Packaging Systems LP
UniTech Industries
WIPOTEC-OCS

PALLETS

Edgeco
MO Industries
TMF Corp

PAPER, FOIL, FILM LAMINATIONS

Admiral Packaging
Bemis, Bemis
Healthcare Packaging
Constantia Flexibles
KNF Corp
Sonic Packaging Industries
Tekni-Plex
TOLAS Healthcare Packaging

PFA BOTTLES

.....
Savillex Corp
952-935-4100
info@savillex.com
www.savillex.com
See ad on page 71
.....

PLASTIC FOR THERMOFORMED PACKAGING

Constantia Flexibles
Klockner Pentaplast
Tekni-Plex
TOPAS Advanced Polymers
UFP Technologies
Zed Industries

PLASTIC SHEETING

Advanced Scientific
Klockner Pentaplast
KNF Corp
Tekni-Plex
TRAX Industrial
Curtains
Tri-Cor Flexible Packaging

POUCHES, CELLOPHANE

Prodo-Pak Corp
Sonics & Materials
Wrapade Packaging Systems

POUCHES, FOIL

Advanced Scientific
Bemis, Bemis
Healthcare Packaging
Glenroy
KNF Corp
Prodo-Pak Corp
Sonic Packaging Industries
Sonics & Materials
TOLAS Healthcare Packaging
Tri-Cor Flexible Packaging
Wrapade Packaging Systems

POUCHES, MYLAR

General Econopak
KNF Corp
Prodo-Pak Corp
Sonic Packaging Industries
Sonics & Materials
TOLAS Healthcare Packaging
Wrapade Packaging Systems

POUCHES, PAPER

Bemis, Bemis
Healthcare Packaging
General Econopak
KNF Corp
Prodo-Pak Corp
Sonic Packaging Industries
TOLAS Healthcare Packaging
Wrapade Packaging Systems

POUCHES, RECLOSABLE

Admiral Packaging
Bemis, Bemis
Healthcare Packaging
Bossar Packaging
Edgeco
KNF Corp
Prodo-Pak Corp
Sonic Packaging Industries
Thomas Scientific
Tri-Cor Flexible Packaging

POUCHES, TYVEK

Bemis, Bemis
Healthcare Packaging
General Econopak
KNF Corp
TOLAS Healthcare Packaging
Wrapade Packaging Systems

POWDER FILLERS

Bausch Advanced Technologies
Bossar Packaging
Capmatic Ltd
Cozzoli Machine Co
Daiichi Jitsugyo (America), Pharmaceutical Div
HealthStar
IMA North America
Key Intl
MAR Macchine Automatische Riemplitrici SPA
MG America
NJM Packaging
Optima Machinery Corp
Per-Fil Industries
Prodo-Pak Corp
Romaco North American
Spee-Dee Packaging Machinery
Wipotec Technology
North America
Wrapade Packaging Systems

POWDER RECOVERY SYSTEMS

Evaporator Dryer Technologies
F.P.S. Food and Pharma Systems srl
Fluid Energy Processing & Equipment
ILC Dover
Nash, by Gardner Denver
Vac-U-Max

PREFILLED

SYRINGES
Capmatic Ltd
Daiichi Jitsugyo (America), Pharmaceutical Div
Gerresheimer AG, Communication
Gerresheimer Bünde GmbH
Uhlmann Packaging Systems LP

PRESSURE-SENSITIVE TAPE

Adhesives Research
ITW ALMA
Tampar Technologies Ltd

PRESSURE-SENSITIVE TAPE, STERILE

Adhesives Research

PRIMARY PACKAGING GLASS

Gerresheimer AG, Communication

Gerresheimer Bünde GmbH
Uhlmann Packaging Systems LP

PRIMARY PACKAGING PLASTICS

Bemis, Bemis
Healthcare Packaging
Comar
Datwyler Pharma Packaging
Gerresheimer AG, Communication
Gerresheimer Bünde GmbH
Gerresheimer Peachtree City (USA) L.P.
TOPAS Advanced Polymers
Tri-Cor Flexible Packaging
Uhlmann Packaging Systems LP

PRINTING EQUIPMENT

AC Compacting LLC
Bell-Mark
Control Micro Systems
Daiichi Jitsugyo (America), Pharmaceutical Div
Dalemark Industries
Gallus
Global Vision
Greydon
Griffin-Rutgers Co
Hapa & Laetus
HealthStar
Iconotech
Matthews Intl Corp, Matthews Marking Systems
OK Sealer
Omega Design Corp
Squid Ink Mfg
Veltek Assocs
Weber Packaging Solutions
Yamada America

RFID (RADIO FREQUENCY IDENTIFICATION)

AdvantaPure
Automated Control Concepts
Ball
Cxnigited
Griffin-Rutgers Co
InkSure Technologies
NJM Packaging
Veltek Assocs
Weber Packaging Solutions

ROLLSTOCK, COATED FILM

Adhesives Research
Admiral Packaging
Bemis, Bemis
Healthcare Packaging
DelStar Technologies
Klockner Pentaplast
Mylan Technologies
Sonic Packaging Industries
TOLAS Healthcare Packaging

ROLLSTOCK, COATED PAPER

Admiral Packaging
Bemis, Bemis
Healthcare Packaging
Mylan Technologies
TOLAS Healthcare Packaging

SEALING EQUIPMENT, ULTRASONIC

Capmatic Ltd
Optima Machinery Corp
Sonic & Materials
Zed Industries

SEALS, HEAT-SHRINKABLE

Klockner Pentaplast

SEALS, TAMPER-EVIDENT

3C Packaging
Adelphi Healthcare Packaging
Auto-Mate Technologies LLC
Capmatic Ltd
Datwyler Pharma Packaging
Edgeco
Enercon Industries Corp
Kaps-All Packaging Systems
Klockner Pentaplast
NovaVision
Rommelag USA
Schreiner MediPharm
Tampar Technologies Ltd
West Pharmaceutical Services
WIPOTEC-OCS
Wrapade Packaging Systems
Zed Industries

SECURITY, BRAND PROTECTION

3C Packaging
Bending Light Solutions
CustomVault
InkSure Technologies
Micro-Tracers
Omega Design Corp
Product Identification Processing Systems
Tampar Technologies Ltd

SHRINK PACKAGING EQUIPMENT

Axon Styrotech, Div Pro Mach
Capmatic Ltd
Cermex
Douglas Machine
HealthStar
NJM Packaging
Omega Design Corp
PDC Intl Corp
Polypack
Rennco, Pro Mach
Romaco North American

STERILE PACKAGING COMPONENTS

Adelphi Healthcare Packaging
Advanced Scientific
American Stelmi Corp
Constantia Flexibles
Cozzoli Machine Co
Datwyler Pharma Packaging
Gerresheimer Bünde GmbH
GMP Systems
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
ILC Dover
Process Tek
West Pharmaceutical Services
Wheaton Industries, Wheaton Science Packaging

WL Gore & Assocs, Gore PharmBIO Products
Xenon Corp

STERILE PACKAGING, DRY PRODUCTS

Adelphi Healthcare Packaging
American Stelmi Corp
Bemis, Bemis Healthcare Packaging
Capmatic Ltd
Cozzoli Machine Co
GMP Systems
Hosokawa Micron Powder Systems
ILC Dover
KNF Corp
Process Tek
Prodo-Pak Corp
Wheaton Industries, Wheaton Science Packaging

STERILE PACKAGING, LIQUIDS

Adelphi Healthcare Packaging
Advanced Scientific
American Stelmi Corp
Bausch+Stroebel Machine Co
Capmatic Ltd
Cozzoli Machine Co
Daichi Jitsugyo (America), Pharmaceutical Div
Efficient Automated Machine Corp
Filamatic, National Instrument LLC
GMP Systems
groninger USA L.L.C
IMA North America
Integrated Packaging Systems

Lonza
MAR Macchine Automatiche
Riempitrici SPA
Oden Machinery
Optima Machinery Corp
OPTIMA pharma GmbH
Process Tek
Prodo-Pak Corp

Robert Bosch Packaging Technology, Pharmaceutical Operations
Rommelag USA
Shibuya Hoppmann Corp
Unither Pharmaceuticals
Weiler Engineering
Wheaton Industries, Wheaton Science Packaging

STERILE PACKAGING, OINTMENTS AND CREAMS
Ball
Bemis, Bemis Healthcare Packaging
Capmatic Ltd
Cozzoli Machine Co
Filamatic, National Instrument LLC
GMP Systems
groninger USA L.L.C
Oden Machinery
Optima Machinery Corp
Process Tek
Prodo-Pak Corp
Rommelag USA

STOPPER STERILIZING EQUIPMENT

AWS Bio-Pharma Technologies
Belimed, Scientific Div
Cozzoli Machine Co
ETC, Sterilization Systems
Federal Equipment Co
Getinge USA, Life Science
HealthStar
Nicos Group
Optima Machinery Corp
Pharmasystems
Process Tek
Victor Intl Mktg

STOPPER WASHING EQUIPMENT

Cozzoli Machine Co
ETC, Sterilization Systems
Getinge USA, Life Science
HealthStar
Lancer USA
Optima Machinery Corp
Pharmasystems
Victor Intl Mktg

STOPPERS, BUTYL

Adelphi Healthcare Packaging
American Stelmi Corp
Datwyler Pharma Packaging
J.G. Finneran Assocs
West Pharmaceutical Services
Wheaton Industries, Wheaton Science Packaging

STRETCH BANDING MACHINES

Axon Styrotech, Div Pro Mach
Capmatic Ltd
IMA North America
NJM Packaging
Omega Design Corp
Romaco North American
Uhlmann Packaging Systems LP

STRIP PACKAGING

MG America
Prodo-Pak Corp
Rommelag USA
Sonic Packaging Industries
Zed Industries

SYRINGE ASSEMBLY EQUIPMENT

Bausch Advanced Technologies
Bausch+Stroebel Machine Co
Capmatic Ltd
Cozzoli Machine Co
Daichi Jitsugyo (America), Pharmaceutical Div
Efficient Automated Machine Corp
ESS Technologies
groninger USA L.L.C
MagneMotion

MG America
Optima Machinery Corp
Palace Packaging Machines
Robert Bosch Packaging Technology, Pharmaceutical Operations
Shibuya Hoppmann Corp

SYRINGE FILLING EQUIPMENT

Bausch Advanced Technologies
Bausch+Stroebel Machine Co
Capmatic Ltd
Cozzoli Machine Co
Daichi Jitsugyo (America), Pharmaceutical Div
Efficient Automated Machine Corp
ESCO Technologies, Esco Pharma Factory
ESS Technologies
Filamatic, National Instrument LLC
FP Developments
groninger USA L.L.C
HealthStar
IVEK Corp
MagneMotion
MAR Machine Automatiche
Riempitrici SPA

MG America
Nicos Group
Oden Machinery
Optima Machinery Corp
OPTIMA pharma GmbH
Oyster Bay Pump Works
Pall Life Sciences, Biopharmaceuticals
Pharmasystems
Prodo-Pak Corp
Rommelag USA
Shibuya Hoppmann Corp

SYRINGE PRINTING EQUIPMENT

AC Compacting LLC
Bausch+Stroebel Machine Co
Capmatic Ltd
Control Micro Systems
Dalemark Industries
groninger USA L.L.C
Matthews Intl Corp, Matthews Marking Systems
Optima Machinery Corp
Prodo-Pak Corp

SYRINGES (AS PACKAGING MATERIAL)

Adelphi Healthcare Packaging
Air-Tite Products Co
American Stelmi Corp
Bausch+Stroebel Machine Co
Comar
Gerresheimer AG, Communication
Gerresheimer Bünde GmbH
groninger USA L.L.C
Kimble Chase, Life Sciences & Research
SCHOTT North America, Pharmaceutical Packaging
TOPAS Advanced Polymers

SYRINGES, NON-STERILE, PREFILLABLE

Adelphi Healthcare Packaging
Air-Tite Products Co
Bausch+Stroebel Machine Co
Capmatic Ltd
Comar
Cozzoli Machine Co
Gerresheimer AG, Communication
Gerresheimer Bünde GmbH
groninger USA L.L.C

OPTIMA pharma GmbH
SCHOTT North America, Pharmaceutical Packaging
TOPAS Advanced Polymers

SYRINGES, STERILE, PREFILLABLE

Adelphi Healthcare Packaging
Air-Tite Products Co
Bausch+Stroebel Machine Co
Capmatic Ltd
Comar
Cozzoli Machine Co
Gerresheimer AG, Communication
Gerresheimer Bünde GmbH
groninger USA L.L.C
Mycoscience
OPTIMA pharma GmbH
SCHOTT North America, Pharmaceutical Packaging
TOPAS Advanced Polymers

TABLET COUNTING MACHINES

ACG North America LLC
Batching Systems
Capmatic Ltd
Daichi Jitsugyo (America), Pharmaceutical Div
IMA North America
Integrated Packaging Systems
Key Intl
Modular Packaging Systems
NJM Packaging
Prodo-Pak Corp
R. W. Hartnett Co

TABLET PRINTING SYSTEMS

AC Compacting LLC
Ackley Machine Corp
Control Micro Systems
Daichi Jitsugyo (America), Pharmaceutical Div
Freund-Vector Corp
Key Intl
Matthews Intl Corp, Matthews Marking Systems
R. W. Hartnett Co

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Adelphi Healthcare Packaging
Adhesives Research
Auto-Mate Technologies LLC
Axon Styrotech, Div Pro Mach
Ball
Capmatic Ltd
Comar
Constantia Flexibles
Enercon Industries Corp
Gallus
Gerresheimer AG, Communication
Globe Scientific
Griffin-Rutgers Co
HealthStar
IntraPac
Kaps-All Packaging Systems
Mettler Toledo PCE, Product Inspection
Mettler-Toledo Hi-Speed, Product Inspection
MG America

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NJM Packaging
NovaVision
O.Berk Co, Healthcare Packaging Group
Rommelag USA
Schreiner MediPharm
Tampar Technologies Ltd
Tekni-Plex
TricorBraun
Unither Pharmaceuticals
Wrapade Packaging Systems

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TCP Reliable

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Constantia Flexibles
Howell Packaging
Hurst Corp
Klockner Pentaplast
MG America
Modular Packaging Systems
Sepha Ltd
Sonic Packaging Industries
TCP Reliable
Tekni-Plex
TOPAS Advanced Polymers
UFP Technologies
Zed Industries

TORQUE TESTER

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Auto-Mate Technologies LLC
Capmatic Ltd
Kaps-All Packaging Systems
Mecmesin Corp
Mesa Labs
NJM Packaging
Process Tek
Sotax Corp

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Hurst Corp
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Remcon Plastics
Terracon Corp
TOPAS Advanced Polymers
UFP Technologies
WL Gore & Assocs, Gore PharmBIO Products
WRH Industries Ltd

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FP Developments
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Hurst Corp
Isolation Systems
MO Industries
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Thermosysteme

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TRAYS, VIAL AND AMPUL

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FP Developments
Garvey Corp
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Hurst Corp
MO Industries
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TUBE FILLING AND CRIMPING MACHINES, METAL TUBES

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IMA North America
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Prado-Pak Corp

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Molex, LLC, Polymicro

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Federal Equipment Co
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ESCO Technologies,
Esco Pharma Factory
Federal Equipment Co
Filamatic, National Instrument LLC
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IMA North America
Intellitech
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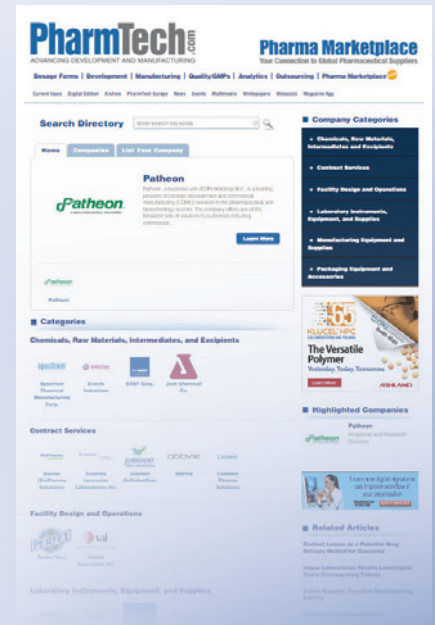
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Regenerative Medicine
JASCO
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Buchiglas USA
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ETC, Sterilization
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Instruments
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Sciencetech
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Jenike & Johanson
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Glen Mills
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North America
Scientech

**CHEMICALS,
CHROMAT-
GRAPHIC**
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
MicroSolv Technology
Corp

**CHEMICALS,
LABELED**
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany

**CHEMICALS,
LABORATORY**
Allan Chemical Corp
Electron Microscopy
Sciences
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany

**CHEMICALS,
STANDARDS**
ATAGO USA
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
General Lab &
Cleanroom Supply
Perkin Elmer Corp,
Environmental Health
Restek Corp
Teledyne Leeman Labs
US Pharmacopeia (USP)

**CHROMATOGRAPHY,
ACCESSORIES**
Agilent Technologies
BioChem Fluidics
BUCHI Corp
BÜCHI Labortechnik AG
Cadence Science
D-Star Instruments
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
ES Industries
General Lab &
Cleanroom Supply
Globe Scientific
Harvard Apparatus
Regenerative Medicine
InterMetro Industries
Corp
J.G. Finneran Assocs
JASCO
JM Science
Kimble Chase, Life
Sciences & Research
Metrohm USA
MicroSolv Technology
Corp
Miles Scientific
Molex, LLC, Polymicro
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Parker Hannifin

Pawling Engineered
Products
Perkin Elmer Corp,
Environmental Health
Phenomenex
Restek Corp
Sci-Con
Sierra Instruments
SSI/LabAlliance
Steadfast Equipment
Waters Corp,
Waters Div
Wheaton Industries,
Wheaton Science
Packaging

**CHROMATOGRAPHY,
AFFINITY MEDIA**
Biotage
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Phenomenex

**CHROMATOGRAPHY,
CHIRAL COLUMNS**
Chiral Technologies
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
ES Industries
General Lab &
Cleanroom Supply
JASCO
JM Science
Phenomenex
Restek Corp
Waters Corp,
Waters Div

**CHROMATOGRAPHY,
COLUMN PACKINGS**
Agilent Technologies
Biotage
Chiral Technologies
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
ES Industries
General Lab &
Cleanroom Supply
MicroSolv Technology
Corp
Miles Scientific
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Phenomenex
Restek Corp
Sci-Con
Wako Chemicals USA,
Lab Chemicals Div
Waters Corp,
Waters Div

**CHROMATOGRAPHY,
COLUMNS**
Agilent Technologies
BioChem Fluidics
Biotage
BUCHI Corp
BÜCHI Labortechnik AG
Chiral Technologies
ES Industries
Imerys, Filtration
JM Science
Kimble Chase, Life
Sciences & Research
Malvern Instruments
Metrohm USA
MicroSolv Technology
Corp
Miles Scientific
Molex, LLC, Polymicro
Pall Corp,
Life Sciences Group

Pall Life Sciences,
Biopharmaceuticals
Perkin Elmer Corp,
Environmental Health
Phenomenex
Sci-Con
Shimadzu Scientific
Instruments
SSI/LabAlliance
Waters Corp,
Waters Div

**CHROMATOGRAPHY,
COLUMNS,
FLUOROPOLYMER-
LINED/COATED**
Metrohm USA
Molex, LLC, Polymicro
Ryan Herco Flow
Solutions

**CHROMATOGRAPHY,
GC**
Agilent Technologies
Imerys, Filtration
J.G. Finneran Assocs
Molex, LLC, Polymicro
Perkin Elmer Corp,
Environmental Health
Phenomenex
Restek Corp
Sci-Con
Shimadzu Scientific
Instruments
Yokogawa Corp
of America

**CHROMATOGRAPHY,
GC DETECTORS**
Agilent Technologies
Ametek, Process
Instruments
Perkin Elmer Corp,
Environmental Health
Sci-Con
Shimadzu Scientific
Instruments

**CHROMATOGRAPHY,
GC/MS**
Agilent Technologies
Ametek, Process
Instruments
Imerys, Filtration
J.G. Finneran Assocs
Molex, LLC, Polymicro
Perkin Elmer Corp,
Environmental Health
Phenomenex
Restek Corp
Shimadzu Scientific
Instruments
TELEDYNE TEKMAR

**CHROMATOGRAPHY,
GEL PERMEATION**
Agilent Technologies
Brookhaven
Instruments Corp
Malvern Instruments
MicroSolv Technology
Corp
Phenomenex

**CHROMATOGRAPHY,
HPLC**
Advion
Agilent Technologies
Biotage
BUCHI Corp
Chiral Technologies
D-Star Instruments
ES Industries
IET | Intl Equipment
Trading Ltd
J.G. Finneran Assocs
JASCO
Justrite
Kimble Chase, Life
Sciences & Research
MicroSolv Technology
Corp

Molex, LLC, Polymicro
Perkin Elmer Corp,
Environmental Health
Phenomenex
Restek Corp
Sci-Con
Shimadzu Scientific
Instruments
SSI/LabAlliance
Thomas Scientific
Waters Corp,
Waters Div
Zinsser NA

**CHROMATOGRAPHY,
HPLC COLUMN
HEATERS**
D-Star Instruments
JASCO
Perkin Elmer Corp,
Environmental Health
Phenomenex
Sci-Con
SSI/LabAlliance
Thomas Scientific

**CHROMATOGRAPHY,
HPLC COLUMNS**
Agilent Technologies
BUCHI Corp
Chiral Technologies
ES Industries
JM Science
Kimble Chase, Life
Sciences & Research
MAC-MOD Analytical
MicroSolv Technology
Corp
Molex, LLC, Polymicro
Perkin Elmer Corp,
Environmental Health
Phenomenex
Restek Corp
Sci-Con
Shimadzu Scientific
Instruments
SSI/LabAlliance
Wako Chemicals USA,
Lab Chemicals Div
Waters Corp,
Waters Div

**CHROMATOGRAPHY,
HPLC DETECTORS**
Advion
Agilent Technologies
BUCHI Corp
D-Star Instruments
IET | Intl Equipment
Trading Ltd
JASCO
MicroSolv Technology
Corp
PDR-Separations
Perkin Elmer Corp,
Environmental Health
Sci-Con
Shimadzu Scientific
Instruments
SSI/LabAlliance

**CHROMATOGRAPHY,
HPLC INTEGRATORS**
D-Star Instruments
JASCO
MicroSolv Technology
Corp
Perkin Elmer Corp,
Environmental Health
Sci-Con
Shimadzu Scientific
Instruments
SSI/LabAlliance
Thomas Scientific
VWR Intl LLC

**CHROMATOGRAPHY,
HPLC PROCESS
MONITORS**
D-Star Instruments

For vendor contact information, see Company Directory section.

**CHROMATOGRAPHY,
HPLC PUMPS**

Advion
BUCHI Corp
D-Star Instruments
IET | Intl Equipment
Trading Ltd
JASCO
JM Science
LEAP Technologies
Perkin Elmer Corp,
Environmental Health
Sci-Con
Shimadzu Scientific
Instruments
SSI/LabAlliance
Unibloc-Pump,
Flowtech Div
Waters Corp,
Waters Div

**CHROMATOGRAPHY,
HPLC SAMPLE
INJECTORS**

Advion
BUCHI Corp
D-Star Instruments
JASCO
LEAP Technologies
MicroSolv Technology
Corp
PDR-Separations
Perkin Elmer Corp,
Environmental Health
Sci-Con
Shimadzu Scientific
Instruments
SSI/LabAlliance
Waters Corp,
Waters Div

**CHROMATOGRAPHY,
HPLC SWITCHING
VALVES**

BioChem Fluidics
JASCO

JM Science
PDR-Separations
Perkin Elmer Corp,
Environmental Health
Sci-Con
Waters Corp,
Waters Div

**CHROMATOGRAPHY,
ION
CHROMATOGRAPHY
COLUMNS**

D-Star Instruments
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
ES Industries
IET | Intl Equipment
Trading Ltd
Metrohm USA
Pall Corp,
Life Sciences Group
SSI/LabAlliance

**CHROMATOGRAPHY,
ION
CHROMATOGRAPHY
DETECTORS**

D-Star Instruments
IET | Intl Equipment
Trading Ltd
JM Science
Metrohm USA
SSI/LabAlliance

**CHROMATOGRAPHY,
ION
CHROMATOGRAPHY
PUMPS**

D-Star Instruments
Fristam Pumps USA
IET | Intl Equipment
Trading Ltd
SSI/LabAlliance

Unibloc-Pump,
Flowtech Div
VWR Intl LLC

**CHROMATOGRAPHY,
ION-EXCHANGE
MEDIA**

Metrohm USA
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Phenomenex

**CHROMATOGRAPHY,
LC**

Advion
Agilent Technologies
Biotage
Bruker, Daltonics
BUCHI Corp
Chiral Technologies
D-Star Instruments
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
ES Industries
IET | Intl Equipment
Trading Ltd
J.G. Finneran Assocs
JASCO
MicroSolv Technology
Corp
Molex, LLC, Polymicro
Perkin Elmer Corp,
Environmental Health
Phenomenex
Restek Corp
Sci-Con
Shimadzu Scientific
Instruments
SSI/LabAlliance
VWR Intl LLC
Waters Corp,
Waters Div

**CHROMATOGRAPHY,
LC DETECTORS**

Advion
Agilent Technologies
BUCHI Corp
D-Star Instruments
IET | Intl Equipment
Trading Ltd
JASCO
PDR-Separations
Perkin Elmer Corp,
Environmental Health
Sci-Con
Shimadzu Scientific
Instruments
SSI/LabAlliance
Waters Corp,
Waters Div

**CHROMATOGRAPHY,
LC PUMPS**

Advion
BUCHI Corp
D-Star Instruments
IET | Intl Equipment
Trading Ltd
JASCO
LEAP Technologies
Perkin Elmer Corp,
Environmental Health
Sci-Con
Shimadzu Scientific
Instruments
SSI/LabAlliance
Waters Corp,
Waters Div

**CHROMATOGRAPHY,
LC/MS**

Advion
Agilent Technologies
Bruker, Daltonics
Chiral Technologies
ES Industries

IET | Intl Equipment
Trading Ltd
J.G. Finneran Assocs
JASCO
MicroSolv Technology
Corp
Molex, LLC, Polymicro
Perkin Elmer Corp,
Environmental Health
Phenomenex
Restek Corp
Shimadzu Scientific
Instruments
SSI/LabAlliance
Waters Corp,
Waters Div

**CHROMATOGRAPHY,
PAPER
CHROMATOGRAPHS**

ES Industries

**CHROMATOGRAPHY,
SFC**

Chiral Technologies
ES Industries
JASCO
Phenomenex
Sci-Con
Shimadzu Scientific
Instruments
SSI/LabAlliance
Thar Process
VWR Intl LLC
Waters Corp,
Waters Div
Zinsser NA

**CHROMATOGRAPHY,
SFC COLUMNS**

Chiral Technologies
ES Industries
JASCO
Phenomenex

Shimadzu Scientific
Instruments
Thar Process
Waters Corp, Waters Div

**CHROMATOGRAPHY,
SFC PROCESS
MONITORS**

JASCO

**CHROMATOGRAPHY,
SIZE EXCLUSION**

Agilent Technologies
Brookhaven
Instruments Corp
ES Industries
Harvard Apparatus
Regenerative Medicine
Malvern Instruments
MicroSolv Technology
Corp
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Phenomenex
Shimadzu Scientific
Instruments
VWR Intl LLC
Waters Corp,
Waters Div

**CHROMATOGRAPHY,
THIN-LAYER
SYSTEMS AND
SUPPLIES**

Advion
Camag Scientific
Chiral Technologies
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Kimble Chase, Life
Sciences & Research
Miles Scientific

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www.renishaw.com

For vendor contact information, see Company Directory section.

**CHROMATOGRAPHY,
VERY HIGH
PERFORMANCE**

Advion
Agilent Technologies
ES Industries
MicroSolv Technology Corp
Phenomenex
Restek Corp
Shimadzu Scientific Instruments
SSI/LabAlliance
Waters Corp,
Waters Div

**COAGULATION
(BLOOD) ANALYZER**

BD Diagnostics
LT Industries
VWR Intl LLC

**COAGULATION
(BLOOD) REAGENTS
AND CONTROLS**

BD Diagnostics

COLONY COUNTERS

Advanced Instruments
Bel-Art Products
bioMérieux
General Lab &
Cleanroom Supply

COLORIMETERS

Bel-Art Products
HunterLab
Konica Minolta Sensing Americas
VWR Intl LLC

**CONDUCTIVITY
METERS**

Anderson-Negele
Denver Instrument
Omega Engineering
Sensaphone
VWR Intl LLC
Yokogawa Corp
of America

**CONSTANT
TEMPERATURE
CHAMBERS**

Bahnon Environmental Specialties,
An EMCOR Co
CARON Products Services
Cincinnati Sub-Zero
GE Sensing &
Inspection Technologies
General Lab &
Cleanroom Supply
Harvard Apparatus
Regenerative Medicine
IKA Works,
Lab, Analytical and
Process Equipment
Omega Engineering
Parameter Generation &
Control
Powers Scientific
TCP Reliable

**CONSTANT
TEMPERATURE
CIRCULATORS**

CARON Products Services
Chemical Transfer
Partnership Corp,
(CTP Corp)
GE Sensing &
Inspection Technologies

Harvard Apparatus
Regenerative Medicine
Heat Exchange &
Transfer
IKA Works,
Lab, Analytical and
Process Equipment
Julabo USA
Omega Engineering
Parameter Generation &
Control

**CONSTANT
TEMPERATURE
WATER BATHS**

Beamex
CARON Products Services
Chemical Transfer
Partnership Corp,
(CTP Corp)
Eppendorf
Gilson Co
Harvard Apparatus
Regenerative Medicine
IKA Works,
Lab, Analytical and
Process Equipment
Julabo USA
Omega Engineering
Parameter Generation &
Control
Thermalac
VWR Intl LLC

**CONTAINER
LEAK DETECTION
EQUIPMENT**

AWS Bio-Pharma Technologies
Mil-Ram Technology
Process Tek
Seidenader
Maschinenbau GmbH
Sensaphone
Sepha Ltd
Victor Intl Mktg

**CONTENT
UNIFORMITY
TESTERS,
AUTOMATED**

Jenike & Johanson
LT Industries
Norman N Axelrod
Assocs, Optical Sensing
& Control Systems
Development Div

**CONTROLLERS,
PRESSURE**

Beamex
Berkert Fluid Control Systems
Eurotherm Brand,
Invensys Operations
Mgmt
Festo Corp
Honeywell, Industrial
Measurement &
Controls Div
MKS Instruments
Omega Engineering
Pyrometer Instrument
Co, PMA Process
Control Div
Siemens Process
Industries + Drives
Viatran

**CONTROLS,
FREEZE-DRYING**

BioPro Intl
Eurotherm Brand,
Invensys Operations
Mgmt
Millrock Technology
Siemens Process
Industries + Drives
TMI USA

**CONTROLS,
SENSING AND
SWITCHING**

Automated Control
Concepts
Automation Products,
Dynatrol®
Chromalox
Cosense
Custom Heat LLC
Festo Corp
FSI Technologies
Glas-Col LLC
ICONICS
IFM Effector
Norman N Axelrod
Assocs, Optical Sensing
& Control Systems
Development Div
Omega Engineering
Rockwell Automation
Sensaphone
Siemens Process
Industries + Drives
Uehling Instrument Co
WAGO Corp

**CONTROLS,
TEMPERATURE**

Atlantic Scale Co
Automated Control
Concepts
Berkert Fluid Control
Systems
Carel USA LLC
Chromalox
Custom Heat LLC
Durex Industries
Eppendorf
Eurotherm Brand,
Invensys Operations
Mgmt
Glas-Col LLC
Hampshire Controls
Corp
Harvard Apparatus
Regenerative Medicine
ICONICS
IKA Works,
Lab, Analytical and
Process Equipment
Isolation Systems
Julabo USA
Mokon
Omega Engineering
Parameter Generation &
Control
Pyrometer Instrument
Co, PMA Process
Control Div
Rockwell Automation
Sensaphone
Siemens Process
Industries + Drives
Thermalac
TMI USA
WAGO Corp
Yokogawa Corp
of America

CONTROLS, TIMING

FSI Technologies
Glas-Col LLC
ICONICS
IKA Works,
Lab, Analytical and
Process Equipment
Isolation Systems
Siemens Process
Industries + Drives

COOLING DEVICES

BioSpec Products
Degree Controls
Fluorotherm Polymers
Heat Exchange &
Transfer
Isolation Systems
Julabo USA
Laird Tech
Mokon

**COUNTERS,
BACTERIOLOGICAL**

BD Diagnostics
bioMérieux
Pall Life Sciences,
Biopharmaceuticals

**COUNTERS,
PARTICLE**

Biotest Diagnostics
Corp
Fluid Imaging
Technologies
Kanomax USA
Micro Measurement Labs
Micromeritics
Instrument Corp
Particle Sizing Systems
Veltek Assocs

COUNTING DEVICES

Atlantic Scale Co
Bel-Art Products
FSI Technologies
Yokogawa Corp
of America

COUNTING SYSTEMS

FSI Technologies
SSE Technologies

**CRUSH STRENGTH
ANALYZERS**

AC Compacting LLC
Mecmesin Corp
TA Instruments
Testing Machines
Texture Technologies
Corp
Verder Scientific,
North America

**CULTURE
APPARATUS,
ANAEROBIC**

Advanced Instruments
BD Diagnostics
BioPro Intl
Bioptechs
Mesa Labs

**CULTURE
APPARATUS,
BACTERIOLOGICAL**

Advanced Instruments
BD Diagnostics
BioPro Intl
Eppendorf
VWR Intl LLC

**CULTURE
APPARATUS,
CULTURE
COLLECTION
SYSTEMS**

Advanced Instruments
BD Diagnostics
Biotest Diagnostics
Corp

**CULTURE
APPARATUS,
CULTURE GROWTH
MEDIA AND
ACCESSORIES**

BD Diagnostics
BioPro Intl
Bioptechs
Biotest Diagnostics
Corp
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Glen Mills
SEBRA, Biopharm &
Cellular Therapy
TA Instruments
Thomas Scientific
Wheaton Industries,
Wheaton Science
Packaging

**DATA LOGGING
EQUIPMENT**

ATAGO USA
Automated Control
Concepts
Carltext
Data Translation
Getinge USA,
Life Science
Gilson Co
Goyen Valve LLC,
Pentair Environmental
Systems
Hampshire Controls
Corp
Honeywell, Industrial
Measurement &
Controls Div
ICONICS
IKA Works,
Lab, Analytical and
Process Equipment
Julabo USA
Marathon Products
Omega Engineering
Palmer Wahl
Temperature Products
Rockwell Automation
Rotronic
Sensaphone
Sensitech
Siemens Process
Industries + Drives
SSE Technologies
Testo
TMI USA
WAGO Corp
Yokogawa Corp
of America

**DATA-ACQUISITION
EQUIPMENT**

Artel
Automated Control
Concepts
Bruker AXS
Caliper Life Sciences
Carltext
D-Star Instruments
Data Translation
Eurotherm Brand,
Invensys Operations
Mgmt
GE Sensing &
Inspection
Technologies
Getinge USA,
Life Science
Goyen Valve LLC,
Pentair Environmental
Systems
Harvard Apparatus
Regenerative Medicine
Honeywell, Industrial
Measurement &
Controls Div
ICONICS
IKA Works,
Lab, Analytical and
Process Equipment
Marathon Products
Omega Engineering
Rockwell Automation
Sensaphone
Sensitech
Siemens Process
Industries + Drives
Testo
Thomas Scientific
TMI USA
WAGO Corp
Yokogawa Corp
of America

DENSITOMETERS

Anton PAAR USA
Camag Scientific
Cannon Instrument Co
Testing Machines
Texture Technologies
Corp
VWR Intl LLC

**DENSITY
MEASURING
EQUIPMENT**

Anton PAAR USA
Automation Products,
Dynatrol®
Hosokawa Micron
Powder Systems
Krohne
Micromeritics
Instrument Corp
Quantachrome
Instruments
Testing Machines
Texture Technologies
Corp
Verder Scientific,
North America
Yokogawa Corp
of America

**DETECTORS,
DIODE-ARRAY**

Advion
BUCHI Corp
D-Star Instruments
First Sensor
JASCO
PDR-Separations
Pion
**Robert Bosch Packaging
Technology,
Pharmaceutical
Operations**
Sci-Con
Shimadzu Scientific
Instruments
Waters Corp,
Waters Div

**DETECTORS,
ELECTROCHEMICAL**

Control Instruments
Corp
D-Star Instruments
Goyen Valve LLC,
Pentair Environmental
Systems
MEECO
Mil-Ram Technology
Neutronics
Sci-Con
Sensor Electronics Corp
Shimadzu Scientific
Instruments

**DETECTORS,
ELECTRON
CAPTURE**

First Sensor
Restek Corp
Sci-Con
Shimadzu Scientific
Instruments

**DETECTORS,
EVAPORATIVE
LIGHT-SCATTERING**

BUCHI Corp
D-Star Instruments
First Sensor
Goyen Valve LLC,
Pentair Environmental
Systems
Shimadzu Scientific
Instruments
Waters Corp,
Waters Div

**DETECTORS, FLAME
IONIZATION**

Control Instruments
Corp
First Sensor
Mil-Ram Technology
Restek Corp
Sci-Con
Shimadzu Scientific
Instruments

DETECTORS, FLUORESCENCE

BioTek Instruments
D-Star Instruments
EDAX, Materials Analysis Div
First Sensor
Goyen Valve LLC, Pentair Environmental Systems
HORIBA Scientific
JASCO
LEAP Technologies
Perkin Elmer Corp, Environmental Health
Sci-Con
Shimadzu Scientific Instruments
Waters Corp, Waters Div

DETECTORS, GAMMA RADIATION

First Sensor

DETECTORS, IR

First Sensor
JASCO
Key Intl
Mendel Co
Mil-Ram Technology
Neutronics
Omega Engineering
Palmer Wahl Temperature Products
Perkin Elmer Corp, Environmental Health
Sci-Con
Sciotech
Sensor Electronics Corp

DETECTORS, LASER-INDUCED FLUORESCENCE

Azbil North America, BioVigilant Div
First Sensor
Norman N Axelrod Assocs, Optical Sensing & Control Systems Development Div
Sciotech

DETECTORS, THERMAL CONDUCTIVITY

Goyen Valve LLC, Pentair Environmental Systems
Omega Engineering
Perkin Elmer Corp, Environmental Health
Restek Corp
Sci-Con
Shimadzu Scientific Instruments
Thomas Scientific

DETECTORS, UV

Advion
Aquionics
BioTek Instruments
D-Star Instruments
Eppendorf
First Sensor
Goyen Valve LLC, Pentair Environmental Systems
HORIBA Scientific
JASCO
Perkin Elmer Corp, Environmental Health
Pion
Sci-Con
Sciotech
Shimadzu Scientific Instruments
Waters Corp, Waters Div

DIALYSIS MEMBRANES

Bel-Art Products

DIFFERENTIAL SCANNING CALORIMETERS

Perkin Elmer Corp, Environmental Health
Shimadzu Scientific Instruments
TA Instruments
Thomas Scientific
VWR Intl LLC

DIFFERENTIAL THERMAL ANALYSIS MEASUREMENT INSTRUMENTS

Goyen Valve LLC, Pentair Environmental Systems
HEL
Hidden Analytical
Perkin Elmer Corp, Environmental Health
Shimadzu Scientific Instruments
TA Instruments
Testo

DIGITAL RATE INDICATOR/TOTALIZERS

FSI Technologies
Omega Engineering

DILUTORS/DISPENSERS

Filamatic, National Instrument LLC
Fluid Metering
Harvard Apparatus Regenerative Medicine
Millrock Technology
Oyster Bay Pump Works
Thomas Scientific

DISINTEGRATION TESTERS

Distek
Sotax Corp
Testing Machines
Texture Technologies Corp

DISSOLUTION ANALYSIS EQUIPMENT

Cadence Science
Distek
Excelsium Corp
JASCO
LEAP Technologies
Pion
Quality Lab Accessories
Sotax Corp

DISSOLVED OXYGEN DETERMINATORS

Goyen Valve LLC, Pentair Environmental Systems
Harvard Apparatus Regenerative Medicine
IKA Works, Lab, Analytical and Process Equipment

DISTILLATION

3V TECH USA
Chem Flowtronics
Chemical Transfer Partnership Corp, (CTP Corp)
IKA Works, Lab, Analytical and Process Equipment
NexGen Enviro Systems
Uhlmann Packaging Systems LP

DISTILLATION EQUIPMENT

3V TECH USA
Artisan Industries
AWS Bio-Pharma Technologies
BÜCHI Labortechnik AG
Chemical Transfer Partnership Corp, (CTP Corp)
De Dietrich Process Systems
GEA Process Engineering, GEA Pharma Systems
IKA Works, Lab, Analytical and Process Equipment
Kimble Chase, Life Sciences & Research
Milestone
Myers Vacuum Repair Services
NexGen Enviro Systems
Thomas Scientific
VWR Intl LLC

DNA SEQUENCERS

Norman N Axelrod Assocs, Optical Sensing & Control Systems Development Div

DRYERS (SEE ALSO MANUFACTURING EQUIPMENT AND SUPPLIES SECTION)

3V TECH USA
B&P Littleford
Buhler Aeroglide
Charles Ross & Son Co
Chem Flowtronics
COMBER Process Technology S.r.l.
Crown Iron Works Co, Specialty Extraction
Electron Microscopy Sciences
Evaporator Dryer Technologies
Fluid Energy Processing & Equipment
GEA Process Engineering, GEA Pharma Systems
Glen Mills
Komline-Sanderson Marion Process Solutions
SP Scientific - HULL/VIRTIS/FTS
Verder Scientific, North America
Werner Mathis USA, North America

DRYERS, GLASSWARE

Bel-Art Products
Belimed, Scientific Div
BioPro Intl
De Dietrich Process Systems
Getinge USA, Life Science
Girton Mfg Co, Pharmaceutical Div
Globe Scientific
Lancer USA
Miele, Professional Products Div
Verder Scientific, North America

DRYERS, VACUUM

3V TECH USA
B&P Littleford
BÜCHI Labortechnik AG
Charles Ross & Son Co
Chemical Transfer Partnership Corp, (CTP Corp)

De Dietrich Process Systems
Evaporator Dryer Technologies
F.P.S. Food and Pharma Systems srl
GEA Process Engineering, GEA Pharma Systems
GEMCO
Hosokawa Micron Powder Systems
Jaygo
Komline-Sanderson Marion Process Solutions
McGill AirPressure LLC
Milestone
Pink GmbH
Thermosysteme Servolift
SP Scientific - HULL/VIRTIS/FTS
Verder Scientific, North America

ELECTRODES, CARBON

Metrohm USA

ELECTRODES, CONDUCTIVITY

Denver Instrument
Honeywell, Industrial Measurement & Controls Div
Metrohm USA
Omega Engineering
VWR Intl LLC

ELECTRODES, KARL FISCHER

Denver Instrument
General Lab & Cleanroom Supply
JM Science
Metrohm USA
Thomas Scientific
VWR Intl LLC

ELECTRODES, METALLIC

General Lab & Cleanroom Supply
Metrohm USA

ELECTRODES, PH

Denver Instrument
Detectable Materials
Harvard Apparatus Regenerative Medicine
Honeywell, Industrial Measurement & Controls Div
Metrohm USA
Omega Engineering
Pfaudler
VWR Intl LLC

ELECTRODES, SPECIFIC ION

Denver Instrument
Harvard Apparatus Regenerative Medicine
JM Science
Metrohm USA
Omega Engineering
VWR Intl LLC

ELECTROPHORESIS EQUIPMENT AND ACCESSORIES

BioDesign of New York
Caliper Life Sciences

EdgeTech Moisture + Humidity
Harvard Apparatus Regenerative Medicine
Inotech Bioscience LLC
MicroSolv Technology Corp
Molex, LLC, Polymicro Syngene
VWR Intl LLC

ELECTROPHORESIS, CAPILLARY INSTRUMENTATION

LEAP Technologies
MicroSolv Technology Corp
Molex, LLC, Polymicro VWR Intl LLC

ENVIRONMENTAL ROOMS AND CHAMBERS

Anguil Environmental Systems
Bahnon Environmental Specialties, An EMCOR Co
CARON Products Services
Cincinnati Sub-Zero
ESCO Technologies, Escro Pharma Factory
FabOhio
General Lab & Cleanroom Supply
Isolation Systems
Liberty Industries
Scientific Industries
SG Magee Co
TRAX Industrial Curtains

ENZYME ANALYZERS

Charles River, Microbial Solutions

ETO MONITORS

Process Tek
Sensor Electronics Corp

EVAPORATION

Chem Flowtronics
Chemical Transfer Partnership Corp, (CTP Corp)
IKA Works, Lab, Analytical and Process Equipment
Myers Vacuum Repair Services
Uhlmann Packaging Systems LP

EVAPORATORS

3V TECH USA
Artisan Industries
BUCHI Corp
BÜCHI Labortechnik AG
Chem Flowtronics
Chemical Transfer Partnership Corp, (CTP Corp)
De Dietrich Process Systems
Evaporator Dryer Technologies
GEA Process Engineering, GEA Pharma Systems
Glas-Col LLC
Glen Mills
IKA Works, Lab, Analytical and Process Equipment
J.G. Finneran Assocs
Kimble Chase, Life Sciences & Research
Milestone
SPX Flow

EVAPORATORS, CENTRIFUGAL

Myers Vacuum Repair Services

EXTRACTION APPARATUS

B&P Littleford
BUCHI Corp
BÜCHI Labortechnik AG
Chem Flowtronics
GEA Process Engineering, GEA Pharma Systems
Isolation Systems
JASCO
Kimble Chase, Life Sciences & Research
Milestone
Neutronics
Phenomenex
Robatel

FERMENTATION EQUIPMENT

Allegheny Bradford Corp, Corporate
Bioengineering AG
BioPro Intl
Chem Flowtronics
DCI-Biolafitte
Eppendorf
GEA Process Engineering, GEA Pharma Systems
Glen Mills
IKA Works, Lab, Analytical and Process Equipment
Sartorius Stedim North America
Wheaton Industries, Wheaton Science Packaging

FILTERING EQUIPMENT

3M Co, 3M Separation and Purification Sciences
3V TECH USA
Air Science USA LLC
AirClean Systems
Allegheny Bradford Corp, Corporate
Aries FilterWorks, Div ResinTech
Atmos-Tech Industries
BHS-Filtration
BioPro Intl
Buchiglas USA
Chem Flowtronics
Chemical Transfer Partnership Corp, (CTP Corp)
Clean Rooms Intl
COMBER Process Technology S.r.l.
De Dietrich Process Systems
ErtelAlsop
Flanders Corp, Containment Products
GEA Process Engineering, GEA Pharma Systems
HEMCO Corp
Isolation Systems
Jaygo
Kavon Filter Products Co
Kimble Chase, Life Sciences & Research
Komline-Sanderson MultiTherm LLC
Pall Life Sciences, Biopharmaceuticals
Robatel
Russell Finex
Sartorius Stedim North America
SPX Flow
Steadfast Equipment
Steri Technologies

For vendor contact information, see Company Directory section.

SWECO
Western States
Machine Co

FILTERS, ACID, ALKALI

AirClean Systems
Chem Flowtronics
ErtelAlsop
Flow Sciences
Kavon Filter Products Co
Pall Life Sciences,
Biopharmaceuticals
Steadfast Equipment
VWR Intl LLC

FILTERS, AIR SAMPLING

Air Techniques Intl (ATI)
Institute Of
Environmental
Sciences Technology
Isolation Systems
Kimble Chase, Life
Sciences & Research
Neutronics
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals

FILTERS, BACTERIOLOGICAL

3M Co, 3M Separation
and Purification
Sciences
ErtelAlsop
Flanders Corp,
Containment Products
Flow Sciences
Kavon Filter Products Co
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals

FILTERS, GLASS FIBER

Buffalo Filter
Flanders Corp,
Containment Products
J.G. Finneran Assocs
Kavon Filter Products Co
MicroSolv Technology
Corp
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Phenomenex

FILTERS, INCOMING WATER

3M Co, 3M Separation
and Purification
Sciences
Aries FilterWorks,
Div ResinTech
ErtelAlsop
Kavon Filter Products Co
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals

FILTERS, MEMBRANE

3M Co, 3M Separation
and Purification
Sciences
Avestin
Bergen Industrial
Supply Co
BioDesign of New York
Flow Sciences
GEA Process
Engineering, GEA
Pharma Systems
J.G. Finneran Assocs
Kavon Filter Products Co
MicroSolv Technology
Corp

Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Sartorius Stedim
North America
Steadfast Equipment

FILTERS, PAPER

ErtelAlsop
Flanders Corp,
Containment Products
Flow Sciences
Gilson Co
J.G. Finneran Assocs
Kavon Filter Products Co
Pall Life Sciences,
Biopharmaceuticals

FILTERS, TESTING APPARATUS

3V TECH USA
Air Techniques Intl (ATI)
BHS-Filtration
Chemical Transfer
Partnership Corp,
(CTP Corp)
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
VWR Intl LLC

FLAME PHOTOMETERS

Process Tek
VWR Intl LLC

FLOW CONTROL SYSTEMS

Burkert Fluid Control
Systems
Degree Controls
Festo Corp
GEA Process
Engineering, GEA
Pharma Systems
Greyline Instruments
Harvard Apparatus
Regenerative Medicine
Hoffer Flow Controls
ICONICS
Isolation Systems
Jenike & Johanson
MKS Instruments
Niagara Meters
Omega Engineering
Siemens Process
Industries + Drives
Sierra Instruments

FLOWMETERS

Bel-Art Products
Bergen Industrial
Supply Co
Burkert Fluid Control
Systems
Degree Controls
EXAIR Corp
Festo Corp
First Sensor
Goyen Valve LLC,
Pentair Environmental
Systems
Greyline Instruments
HEMCO Corp
Hoffer Flow Controls
IFM Efector
Integrated Gas Services
Kimble Chase, Life
Sciences & Research
Krohne
MKS Instruments
Niagara Meters
Omega Engineering
Restek Corp
RJM Sales
Rockwell Automation
Ryan Specialty Valve
Products LLC
Siemens Process
Industries + Drives
Sierra Instruments

VWR Intl LLC
WILCO AG
Yokogawa Corp
of America

FLOWMETERS, SANITARY DESIGN

Bergen Industrial
Supply Co
Hoffer Flow Controls
IFM Efector
Krohne
MKS Instruments
Niagara Meters
Omega Engineering
Process Tek
Ryan Specialty Valve
Products LLC
Sierra Instruments
Yokogawa Corp
of America

FRACTION COLLECTORS

BUCHI Corp
D-Star Instruments
Harvard Apparatus
Regenerative Medicine
LEAP Technologies
MicroSolv Technology
Corp
Rockwell Automation

FREEZERS

Bahson Environmental
Specialties,
An EMCOR Co
BioPro Intl
BOC, A member of
The Linde Group
Chem Flowtronics
Eppendorf
Parameter Generation &
Control
Powers Scientific
Praxair
SG Magee Co
So-Low Environmental
Equipment Co
Vindonwestech

FREEZING POINT APPARATUS

Advanced Instruments
Chem Flowtronics

FRIABILATORS

Key Intl
Sotax Corp

FRICTS, CHROMATOGRAPHIC COLUMN

Bopp USA
MicroSolv Technology
Corp
Mott Corp
Phenomenex

FURNACES

Extrel CMS
Gilson Co
Milestone
Verder Scientific,
North America

FURNITURE, LABORATORY

CleanZones LLC
General Lab &
Cleanroom Supply
HEMCO Corp
InterMetro Industries
Corp
Isolation Systems
Kewaunee Scientific
Corp
Liberty Industries
PlugIn Storage
Systems - PSSI

GAS ANALYZERS

Ametek, Process
Instruments
Applied Analytics
Burkert Fluid Control
Systems
Charles River,
Microbial Solutions
Control Instruments
Corp
E Instruments Intl
Goyen Valve LLC,
Pentair Environmental
Systems
MKS Instruments
Neutronics
Nova Biomedical
Palmer Wahl
Temperature Products
Sensor Electronics Corp
VWR Intl LLC
WILCO AG

GAS MIXTURES

Airgas
BOC, A member of
The Linde Group
Praxair
Scott Medical Products
VWR Intl LLC

GLASSWARE

3V TECH USA
Chem Flowtronics
General Lab &
Cleanroom Supply
Gilson Co
Globe Scientific
Kimble Chase, Life
Sciences & Research
Millrock Technology
Wheaton Industries,
Wheaton Science
Packaging

GLOVES

Airgas
Ansell Protective
Products, Occupational
Healthcare Div
Bel-Art Products
CSR Pharma Services
Gilson Co
Harvard Apparatus
Regenerative Medicine
Liberty Industries
QRP Gloves
Renco Corp
Shoe Inn
Showa Best Glove
Wells Lamont Industrial

GRANULATORS, VACUUM, MICROWAVE

GEA Process
Engineering, GEA
Pharma Systems
Servolift

HEATERS

Gilson Co
IKA Works,
Lab, Analytical and
Process Equipment
Phenomenex

HEATING DEVICES

Biopetechs
Chemical Transfer
Partnership Corp,
(CTP Corp)
Chromalox
Custom Heat LLC
Dalton Electric
Heating Co
Durex Industries
Fluorotherm Polymers
Glas-Col LLC
Harvard Apparatus
Regenerative Medicine

Heat Exchange &
Transfer
IKA Works,
Lab, Analytical and
Process Equipment
Julabo USA
MultiTherm LLC
Omega Engineering
Phenomenex
Restek Corp

HOMOGENIZERS

AC Compacting LLC
Avestin
BEE Intl
BioSpec Products
Branson Ultrasonics
Corp
Charles Ross & Son Co
Electron Microscopy
Sciences
GEA Process
Engineering, GEA
Pharma Systems
GEMCO
Glas-Col LLC
Glen Mills
Harvard Apparatus
Regenerative Medicine
IKA Works,
Lab, Analytical and
Process Equipment
Jaygo
Kimble Chase, Life
Sciences & Research
Kinematica
Lee Industries,
Process Systems
& Equipment/Fluid
Transfer Div
MicroThermics
Olsa USA
Omni Intl
PRO Scientific
Process Tek
Scientific Industries
Silverson Machines
Sonics & Materials
Thomas Scientific

HOODS, FUME

AirClean Systems
Atmos-Tech Industries
Bel-Art Products
CleanZones LLC
Degree Controls
Denver Instrument
ESCO Technologies,
Esco Pharma Factory
Flow Sciences
HEMCO Corp
Kewaunee Scientific
Corp
Laminar Flow
Liberty Industries
Ryan Herco Flow
Solutions
The Baker Co

HOODS, LAMINAR-FLOW

AES Clean Technology
AirClean Systems
Atmos-Tech Industries
Bausch Advanced
Technologies
Clean Rooms Intl
CleanZones LLC
Denver Instrument
ESCO Technologies,
Esco Pharma Factory
Flow Sciences
HEMCO Corp
International Portland
Corp
Kewaunee Scientific
Corp
Laminar Flow
The Baker Co
Thomas Scientific

HUMIDITY CONTROLLERS

Carel USA LLC
CARON Products
Services
L C Science and
Technology
Rotronic
Yokogawa Corp
of America

HUMIDITY METERS

Condaire plc
CSR Pharma Services
E Instruments Intl
EdgeTech Moisture +
Humidity
Gilson Co
Hampshire Controls
Corp
Harvard Apparatus
Regenerative Medicine
Marathon Products
moisttech
Omega Engineering
Parameter Generation &
Control
Rotronic
Sensaphone
Sensitech
Testo
Yokogawa Corp
of America

HUMIDITY RECORDERS

Condaire plc
CSR Pharma Services
EdgeTech Moisture +
Humidity
Gilson Co
Honeywell, Industrial
Measurement &
Controls Div
Marathon Products
Mesa Labs
moisttech
Omega Engineering
Parameter Generation &
Control
Rotronic
Sensaphone
Sensitech
Testo
TMI USA
Yokogawa Corp
of America

IAQ MONITORS

Kanomax USA
Uhlmann Packaging
Systems LP

IMAGE ANALYSIS EQUIPMENT, SINGLE-WIRE DETECTOR

Norman N Axelrod
Assocs, Optical Sensing
& Control Systems
Development Div

INCUBATORS

Biopetechs
CARON Products
Services
Cincinnati Sub-Zero
Electron Microscopy
Sciences
Eppendorf
ESCO Technologies,
Esco Pharma Factory
Federal Equipment Co
General Lab &
Cleanroom Supply
Globe Scientific
Powers Scientific
Scientific Industries
Vindonwestech

INDICATORS, LEVEL

Automation Products,
Dynatrol®
Chem Flowtronics
First Sensor
FSI Technologies
Goyen Valve LLC,
Pentair Environmental
Systems
IFM Efector
Omega Engineering
Pyrometer Instrument
Co., PMA Process
Control Div
Sierra Instruments
Uehling Instrument Co
Viatran
Yokogawa Corp
of America

INDICATORS, PRESSURE

AMETEK, Sensors,
Test & Calibration
Ashcroft
Bergen Industrial
Supply Co
Festo Corp
First Sensor
IFM Efector
MKS Instruments
Omega Engineering
Palmer Wahl
Temperature Products
Pyrometer Instrument
Co., PMA Process
Control Div
Testo
TMI USA
Uehling Instrument Co
Viatran
Yokogawa Corp
of America

INDUSTRIAL CONTROL DEVICES

Chromalox
Festo Corp
FSI Technologies
IFM Efector
Label Mill
MKS Instruments
Neutronics
Omega Engineering
Pyrometer Instrument
Co., PMA Process
Control Div
Sierra Instruments
TMI USA
WAGO Corp
Yokogawa Corp
of America

INSPECTION DEVICES, CANS

Cognex Corp
FSI Technologies
Global Vision
ISRA Surface Vision
Kaps-All Packaging
Systems
Lenox Instrument Co
Loma Systems,
an ITW Co
Process Tek
PTI Packaging
Technologies &
Inspection LLC
Thomas Scientific
Tri-Tronics Co
WILCO AG

INSPECTION DEVICES, CAPS AND NECK SEALS

AWS Bio-Pharma
Technologies
Cognex Corp
Emhart Glass Mfg
FSI Technologies
ISRA Surface Vision
Kaps-All Packaging
Systems

Loma Systems,
an ITW Co
Mark10 Corp
NJM Packaging
Norman N Axelrod
Assocs, Optical Sensing
& Control Systems
Development Div
PTI Packaging
Technologies &
Inspection LLC
**Robert Bosch Packaging
Technology,
Pharmaceutical
Operations**
Seidenader
Maschinenbau GmbH
Tri-Tronics Co
Victor Intl Mktg
WILCO AG

INSPECTION DEVICES, CAPSULES

AC Compacting LLC
Cognex Corp
Driam USA
ERIEZ, HQ
Fortress Technology
FSI Technologies
ISRA Surface Vision
Lock Inspection
Systems
Loma Systems,
an ITW Co
Mark10 Corp
Mendel Co
NJM Packaging
Norman N Axelrod
Assocs, Optical Sensing
& Control Systems
Development Div
Proditec
Qualicaps
**Robert Bosch Packaging
Technology,
Pharmaceutical
Operations**
Seidenader
Maschinenbau GmbH
Sepha Ltd

INSPECTION DEVICES, CODE SCANNING

Auto-Mate
Technologies LLC
Cognex Corp
Emhart Glass Mfg
FSI Technologies
Global Vision
Hapa & Laetus
ISRA Surface Vision
Kaps-All Packaging
Systems
Label Mill
Product Identification
Processing Systems
**Robert Bosch Packaging
Technology,
Pharmaceutical
Operations**
Seidenader
Maschinenbau GmbH
SSE Technologies
Tri-Tronics Co

INSPECTION DEVICES, FOREIGN MATTER

AC Compacting LLC
AWS Bio-Pharma
Technologies
Cognex Corp
ERIEZ, HQ
Fortress Technology
FSI Technologies
ISRA Surface Vision
Lock Inspection
Systems
Loma Systems,
an ITW Co
LT Industries
Micro Measurement Labs

Norman N Axelrod
Assocs, Optical Sensing
& Control Systems
Development Div
**Robert Bosch Packaging
Technology,
Pharmaceutical
Operations**
Seidenader
Maschinenbau GmbH
Victor Intl Mktg

INSPECTION DEVICES, FULL CASE

Cognex Corp
Emhart Glass Mfg
ERIEZ, HQ
Fortress Technology
FSI Technologies
ISRA Surface Vision
Kaps-All Packaging
Systems
Loma Systems,
an ITW Co
Tri-Tronics Co
Victor Intl Mktg

INSPECTION DEVICES, LABELS

Auto-Mate
Technologies LLC
AWS Bio-Pharma
Technologies
Cognex Corp
Emhart Glass Mfg
FSI Technologies
Global Vision
Hapa & Laetus
ISRA Surface Vision
Kaps-All Packaging
Systems
MNEMONICS
NJM Packaging
Norman N Axelrod
Assocs, Optical Sensing
& Control Systems
Development Div
Seidenader
Maschinenbau GmbH
Tri-Tronics Co

INSPECTION DEVICES, LIQUID LEVEL

Charles River,
Microbial Solutions
Cognex Corp
ERIEZ, HQ
FSI Technologies
Kaps-All Packaging
Systems
LJ Star
NJM Packaging
**Robert Bosch Packaging
Technology,
Pharmaceutical
Operations**
Tri-Tronics Co
Victor Intl Mktg

INSPECTION DEVICES, PRESSURE

AGR Intl
Ashcroft
Charles River,
Microbial Solutions
Mark10 Corp
NJM Packaging
PTI Packaging
Technologies &
Inspection LLC
**Robert Bosch Packaging
Technology,
Pharmaceutical
Operations**
Seidenader
Maschinenbau GmbH
Sepha Ltd
SSE Technologies
TMI USA

INSPECTION DEVICES, TABLETS

AC Compacting LLC
Ackley Machine Corp
Charles River,
Microbial Solutions
Cognex Corp
Driam USA
ERIEZ, HQ
**Fette Compacting
America**
Fortress Technology
FSI Technologies
Key Intl
Loma Systems,
an ITW Co
Mendel Co
NJM Packaging
Norman N Axelrod
Assocs, Optical Sensing
& Control Systems
Development Div
Proditec
Qualicaps
R. W. Hartnett Co
Seidenader
Maschinenbau GmbH
Sepha Ltd

INSTRUMENTS FOR MEASURING PARTICLE CONCENTRATION

Automation Products,
Dynatrol®
Charles River,
Microbial Solutions
Fluid Imaging
Technologies
Kanomax USA
Micro Measurement Labs
Norman N Axelrod
Assocs, Optical Sensing
& Control Systems
Development Div
Particle Sizing Systems

KJELDAHL APPARATUS

BUCHI Corp
BÜCHI Labortechnik AG
Kimble Chase, Life
Sciences & Research

LABWARE

Bel-Art Products
BUCHI Corp
CSR Pharma Services
GE Sensing &
Inspection
Technologies
General Lab &
Cleanroom Supply
Gilson Co
Globe Scientific
Kimble Chase, Life
Sciences & Research
Perflex Corp
Poly-Pipets
Quality Lab Accessories
TOPAS Advanced
Polymers

LABWARE, PTFE

Bel-Art Products
CSR Pharma Services
Kimble Chase, Life
Sciences & Research
Mastco

LIMULUS AMEBOCYTE LYSATE (PYROGENICITY TESTING)

Associates of Cape Cod

LIQUID LEVEL SENSORS

Anderson-Negele
Automation Products,
Dynatrol®
BioPro Intl

Detectable Materials
First Sensor
Greyline Instruments
IFM Efector
Krohne
MTS Sensors
Niagara Meters
Omega Engineering
Oyster Bay Pump Works
Sierra Instruments
Uehling Instrument Co
Viatran

LIQUID SCINTILLATION COUNTING EQUIPMENT AND SUPPLIES

Globe Scientific
VWR Intl LLC

LYOPHILIZERS (FREEZE DRYERS)

BioPro Intl
ESCO Technologies,
Esco Pharma Factory
Extrel CMS
HealthStar
IMA North America
Millrock Technology
Optima Machinery Corp
PennTech Machinery
Corp
Praxair
SP Scientific - HULL/
VIRTIS/FTS
Victor Intl Mktg

MACHINE VISION SYSTEMS

AC Compacting LLC
Cognex Corp
Daichi Jitsugyo
(America),
Pharmaceutical Div
Emhart Glass Mfg
Festo Corp
First Sensor
FSI Technologies
Hapa & Laetus
Label Mill
NJM Packaging
Optical Gaging
Products (OGP),
Quality Vision Intl
RAM Optical
Instrumentation (RAM)
**Robert Bosch Packaging
Technology,
Pharmaceutical
Operations**
Seidenader
Maschinenbau GmbH
Teledyne DALSA
Victor Intl Mktg
WAGO Corp

MANOMETERS

Ashcroft
Beamex
Gilson Co
MKS Instruments
Omega Engineering
Testo
Uehling Instrument Co

MASS SPECTROMETERS AND ACCESSORIES

Advion
Ametek, Process
Instruments
Bruker, Daltonics
Harvard Apparatus
Regenerative Medicine
Hidden Analytical
LEAP Technologies
MKS Instruments
Molex, LLC, Polymicro
Perkin Elmer Corp,
Environmental Health

Pfeiffer Vacuum
Shimadzu Scientific
Instruments
Thomas Scientific
VWR Intl LLC
Waters Corp,
Waters Div

MELTING POINT APPARATUS

BUCHI Corp
BÜCHI Labortechnik AG

MEMBRANE FILTRATION APPARATUS AND SUPPLIES

BioDesign of New York
GEA Process
Engineering, GEA
Pharma Systems
Kimble Chase, Life
Sciences & Research
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals

METABOLISM CHAMBERS

Harvard Apparatus
Regenerative Medicine
VWR Intl LLC

METAL DETECTORS

Fortress Technology
Global Equipment,
Magnetics Div
Key Intl
Lock Inspection
Systems
Loma Systems,
an ITW Co
Magnetics Div, Global
Equipment Mktg

MICROBIOLOGY ANALYZERS

Azbil North America,
BioVigilant Div
bioMérieux
Bruker, Daltonics
Charles River,
Microbial Solutions
Pall Life Sciences,
Biopharmaceuticals
VWR Intl LLC

MICRO-CALORIMETERS

Perkin Elmer Corp,
Environmental Health
TA Instruments

MICROPLATE READERS

Associates of Cape Cod
BioDesign of New York
BioTek Instruments
Caliper Life Sciences
Cosense
Eppendorf
Harvard Apparatus
Regenerative Medicine
VWR Intl LLC

MICROPLATE WASHERS

BioTek Instruments
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Oyster Bay Pump Works
VWR Intl LLC

MICROSCOPE SLIDES

Blue Thunder
Technologies
CSR Pharma Services

QualiTru Sampling Systems
RAM Optical Instrumentation (RAM)
Rapid Micro Biosystems
Sensitech
Sepha Ltd
Sotax Corp
SSE Technologies
Testing Machines

REACTION CALORIMETERS

HEL
IKA Works, Lab, Analytical and Process Equipment

REACTORS, AUTOMATED

Buchiglas USA
Charles Ross & Son Co
Chem Flowtronics
Chemical Transfer Partnership Corp, (CTP Corp)
De Dietrich Process Systems
HEL
IKA Works, Lab, Analytical and Process Equipment
IntelliTech
Magna-Safe Intl
Thar Process

RECORDERS, CHARTS AND ACCESSORIES

Brookfield AMETEK
Caritex
Eurotherm Brand, InvenSys Operations Mgmt
Honeywell, Industrial Measurement & Controls Div
Palmer Wahl
Temperature Products
VWR Intl LLC
Yokogawa Corp of America

REFRACTOMETERS

Anton PAAR USA
ATAGO USA
Cannon Instrument Co
MISCO Refractometer
Omega Engineering
Thomas Scientific

REFRIGERATORS

Bahnson Environmental Specialties, An EMCOR Co
CARON Products Services
Chem Flowtronics
Powers Scientific
Scientific Industries
SG Magee Co
So-Low Environmental Equipment Co
Vindonwestech

RESISTIVITY PROBES

Omega Engineering

REVERSE OSMOSIS MEMBRANE EQUIPMENT

Aries FilterWorks, Div ResinTech
NexGen Enviro Systems
SPX Flow
Thomas Scientific

RHEOMETERS

AC Compacting LLC
Anton PAAR USA

ATS RheoSystems, Cannon Instrument Co
Automation Products, Dynatrol®
Cannon Instrument Co
Charles River, Microbial Solutions
CW Brabender Instruments
Gilson Co
Malvern Instruments
TA Instruments
Texture Technologies Corp

ROBOTICS, LABORATORY

Artel
Bruker, Daltonics
Caliper Life Sciences
Eppendorf
Fluid Imaging Technologies
Omni Intl
Prior Scientific
PRO Scientific
Stäubli, Robotics
Zinsser NA

SAMPLE PREPARATION INSTRUMENTATION

Anton PAAR USA
Bruker, Daltonics
BUCHI Corp
Cadence Science
Caliper Life Sciences
CEM Corp
CW Brabender Instruments
Distek
Eppendorf
Harvard Apparatus
Regenerative Medicine
LEAP Technologies
Metrohm USA
Micromeritics
Instrument Corp
Milestone
Neutronics
Omni Intl
Phenomenex
Restek Corp
Ryan Herco Flow Solutions
TELEDYNE TEKMAR
Testing Machines
Verder Scientific, North America
VWR Intl LLC
Zinsser NA

SAMPLING DEVICES, AUTOMATED

AC Compacting LLC
Advion
Allegheny Bradford Corp, Corporate
Biotest Diagnostics Corp
Caliper Life Sciences
Distek
Gilson Co
LEAP Technologies
MagneMotion
Neutronics
Ryan Herco Flow Solutions
Sentry Equipment

SAMPLING DEVICES, BULK POWDER

Caliper Life Sciences
Gilson Co
Glen Mills
Quantachrome Instruments
Ryan Herco Flow Solutions
Sentry Equipment
Verder Scientific, North America

SCREEN GASKETS

Bergen Industrial Supply Co
Minox/Elcan
Russell Finex
Ryan Herco Flow Solutions

SENSOR PROTECTION VESSELS (THERMOWELLS)

Durex Industries
Palmer Wahl
Temperature Products

SEQUENCERS, PROTEIN

Thomas Scientific

SHAKERS, INCUBATING

BioPro Intl
BioSpec Products
Chem Flowtronics
Eppendorf
Glas-Col LLC
PRO Scientific
Scientific Industries
Troemner
Union Scientific Corp
Werner Mathis USA, North America

SHAKERS, SIEVE

Chem Flowtronics
ERIEZ, HQ
Gilson Co
Glas-Col LLC
Glen Mills
HealthStar
Minox/Elcan
SWECO
Uhlmann Packaging Systems LP
Verder Scientific, North America

SHAKERS, WATER BATH

Chem Flowtronics
Eppendorf
Glas-Col LLC
Globe Scientific
Julabo USA
Verder Scientific, North America

SIEVES, LABORATORY

Bel-Art Products
Chem Flowtronics
Gilson Co
Glen Mills
Hosokawa Micron Powder Systems
Kason Corp
Minox/Elcan
Russell Finex
SWECO
Verder Scientific, North America

SIZE REDUCTION EQUIPMENT

Hosokawa Micron Powder Systems
Kemutec
SWECO
The Jet Pulverizer Co
Uhlmann Packaging Systems LP
Verder Scientific, North America

SOLIDS ANALYZERS

HORIBA Scientific
LT Industries
Metrohm USA
TELEDYNE TEKMAR

SOLVENT RECOVERY SYSTEMS, EXTRACTION

3V TECH USA
B&P Littleford
Kimble Chase, Life Sciences & Research
Nash, by Gardner Denver
NexGen Enviro Systems
Robatel
Yamada America

SOXHLET EXTRACTION APPARATUS

Kimble Chase, Life Sciences & Research
VWR Intl LLC

SPECIFIC GRAVITY BALANCES

Automation Products, Dynatrol®
General Lab & Cleanroom Supply
Sciotech
Shimadzu Scientific Instruments

SPECTRO-FLUORIMETERS

Bruker Optics
Eppendorf
HORIBA Scientific
JASCO
Perkin Elmer Corp, Environmental Health
Shimadzu Scientific Instruments

SPECTROMETERS, AUGER

VWR Intl LLC

SPECTROMETERS, EMISSION

Bruker AXS
HORIBA Scientific
IET | Intl Equipment
Trading Ltd
Shimadzu Scientific Instruments
Teledyne Leeman Labs

SPECTROMETERS, MASS

ABB, Process Automation Div
Ametek, Process Instruments
Bruker, Daltonics
Hidden Analytical
IET | Intl Equipment
Trading Ltd
MKS Instruments
Perkin Elmer Corp, Environmental Health
Shimadzu Scientific Instruments
Waters Corp, Waters Div

SPECTROMETERS, NMR

ABB, Process Automation Div
Bruker, Daltonics
IET | Intl Equipment
Trading Ltd
VWR Intl LLC

SPECTROMETERS, X-RAY

Bruker, Daltonics
Bruker AXS
EDAX, Materials Analysis Div
HORIBA Scientific
IET | Intl Equipment
Trading Ltd

Shimadzu Scientific Instruments
Thermo Scientific, Portable Analytical Instruments
VWR Intl LLC

SPECTRO-PHOTOMETER ACCESSORIES

Eppendorf
Globe Scientific
JASCO
Konica Minolta Sensing Americas
MicroSolv Technology Corp
Molex, LLC, Polymicro
Perkin Elmer Corp, Environmental Health
Sci-Con
Shimadzu Scientific Instruments
Thomas Scientific

SPECTRO-PHOTOMETER CELLS

Eppendorf
Globe Scientific
Perkin Elmer Corp, Environmental Health
Sci-Con
VWR Intl LLC

SPECTRO-PHOTOMETERS, AA

IET | Intl Equipment
Trading Ltd
Perkin Elmer Corp, Environmental Health
Sci-Con
Shimadzu Scientific Instruments
Teledyne Leeman Labs

SPECTRO-PHOTOMETERS, CIRCULAR DICHROISM

JASCO

SPECTRO-PHOTOMETERS, COLD VAPOR

Teledyne Leeman Labs
VWR Intl LLC

SPECTRO-PHOTOMETERS, COLOR

Eppendorf
HunterLab
Konica Minolta Sensing Americas
Perkin Elmer Corp, Environmental Health

SPECTRO-PHOTOMETERS, DIODE-ARRAY

Ametek, Process Instruments
First Sensor
JASCO
PDR-Separations

SPECTRO-PHOTOMETERS, FLAME

First Sensor
Teledyne Leeman Labs

SPECTRO-PHOTOMETERS, FLUORESCENCE

Eppendorf
First Sensor
HORIBA Scientific
JASCO
Perkin Elmer Corp, Environmental Health

Sci-Con
Shimadzu Scientific Instruments
Teledyne Leeman Labs

SPECTRO-PHOTOMETERS, IR

Ametek, Process Instruments
Bruker Optics
Eppendorf
First Sensor
IET | Intl Equipment
Trading Ltd
JASCO
Perkin Elmer Corp, Environmental Health
Shimadzu Scientific Instruments

SPECTRO-PHOTOMETERS, NEAR-IR

Bruker Optics
BUCHI Corp
BUCHI Labortechnik AG
En'Urga
First Sensor
IET | Intl Equipment
Trading Ltd
JASCO
LT Industries
Metrohm USA
moistech
Optometrics Corp
Perkin Elmer Corp, Environmental Health
Shimadzu Scientific Instruments
VWR Intl LLC

SPECTRO-PHOTOMETERS, PHOSPHOR-ESCE

First Sensor
HORIBA Scientific
JASCO
VWR Intl LLC

SPECTRO-PHOTOMETERS, RAMAN

Bruker, Daltonics
Bruker Optics
First Sensor
HORIBA Scientific
IET | Intl Equipment
Trading Ltd
JASCO
Renishaw

SPECTRO-PHOTOMETERS, REFLECTANCE

Bruker Optics
First Sensor
HunterLab
IET | Intl Equipment
Trading Ltd
JASCO
Konica Minolta Sensing Americas
LT Industries
Molex, LLC, Polymicro
Perkin Elmer Corp, Environmental Health
Shimadzu Scientific Instruments

SPECTRO-PHOTOMETERS, UV

Ametek, Process Instruments
Aquionics
Bioscience
BioTek Instruments
Distek
En'Urga
First Sensor
IET | Intl Equipment
Trading Ltd

For vendor contact information, see Company Directory section.

JASCO
Optometrics Corp
Perkin Elmer Corp,
Environmental Health
Pion
Shimadzu Scientific
Instruments

SPECTRO- PHOTOMETERS, VISIBLE

Artel
Bioscience
BioTek Instruments
En'Urga
First Sensor
HunterLab
IET | Intl Equipment
Trading Ltd
JASCO
Konica Minolta Sensing
Americas
LT Industries
Metrohm USA
Optometrics Corp
Perkin Elmer Corp,
Environmental Health
Shimadzu Scientific
Instruments
VWR Intl LLC

SPECTRO- POLARIMETERS

JASCO
VWR Intl LLC

STABILITY TEST CHAMBERS

Bahnon Environmental
Specialties,
An EMCOR Co
CARON Products
Services
Cincinnati Sub-Zero
ETC, Sterilization
Systems
Parameter Generation &
Control
Powers Scientific
Vindonwestech

STANDARDS, PARTICLE SIZE AND COUNTER

Bangs Labs
Biotest Diagnostics
Corp
Blue Thunder
Technologies
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Fluid Imaging
Technologies

STEAM GENERATORS

AWS Bio-Pharma
Technologies
BioPro Intl
Dristeam
Getinge USA,
Life Science
Sussman Electric
Boilers

STEAM QUALITY TESTING EQUIPMENT

Carltext

STERILIZERS

AWS Bio-Pharma
Technologies
B&P Littleford
Belimed, Scientific Div
BioPro Intl
BIOQUELL,
Life Sciences
Carltext
Clordisys Solutions

Despatch - ITW EAE,
Div of Illinois
Tool Works
ETC, Sterilization
Systems
Getinge USA,
Life Science
Harvard Apparatus
Regenerative Medicine
Inotech Bioscience LLC
L&R Mfg
MicroThermics
Process Tek
Thomas Scientific
Tuttnauer USA Co Ltd,
Lab & Scientific Div
Victor Intl Mktg

STERILIZERS, MICROWAVE

VWR Intl LLC

STERILIZERS, OZONE GENERATORS

Process Tek

STERILIZERS, UV

Clordisys Solutions
Process Tek
Xenon Corp

STERILIZERS, WATER PURIFICATION

AWS Bio-Pharma
Technologies
ETC, Sterilization
Systems
Getinge USA,
Life Science
Pall Life Sciences,
Biopharmaceuticals
Process Tek
Victor Intl Mktg
VWR Intl LLC

STILLS, WATER

AWS Bio-Pharma
Technologies
Getinge USA,
Life Science
Milestone
Stilmas USA

STIRRERS

Bel-Art Products
BioPro Intl
BioSpec Products
Blue Thunder
Technologies
Cleveland Eastern
Mixers, Div EMI
CW Brabender
Instruments
De Dietrich Process
Systems
Gilson Co
Glas-Col LLC
Glen Mills
Globe Scientific
IKA Works,
Lab, Analytical and
Process Equipment
Indco
Kemutec
Kimble Chase, Life
Sciences & Research
Kinematica
Lee Industries,
Process Systems
& Equipment/Fluid
Transfer Div
Lightnin, An SPX Brand,
SPX Flow Technology
Magna-Safe Intl
MicroSolv Technology
Corp
Myers Mixers

Olsa USA
Poly-Pipets
PRO Scientific
Scientific Industries
Silverson Machines
Thomas Scientific
Troemner
Union Scientific Corp

STOPPER STERILIZING EQUIPMENT

AWS Bio-Pharma
Technologies
Belimed, Scientific Div
ETC, Sterilization
Systems
Getinge USA,
Life Science
Process Tek
Victor Intl Mktg

SUGAR ANALYZERS

ATAGO USA
Automation Products,
Dynatrol®
LT Industries

SURFACE AREA ANALYZERS

ATS RheoSystems,
Cannon Instrument Co
Hidden Analytical
HORIBA Scientific
Micromeritics
Instrument Corp
Powdersize
Quantachrome
Instruments

SURFACE CONTAMINATION MEASURING EQUIPMENT

Biotest Diagnostics
Corp
LT Industries
Micro Measurement Labs

SURFACE TENSION APPARATUS

Chemultants Intl
Hosokawa Micron
Powder Systems
Mecmesin Corp

SYNTHESIZERS, PEPTIDE

CEM Corp
Milestone
Zinsser NA

SYRINGES

Air-Tite Products Co
Blue Thunder
Technologies
Cadence Science
Kimble Chase, Life
Sciences & Research
MicroSolv Technology
Corp
Restek Corp
Robert Bosch Packaging
Technology,
Pharmaceutical
Operations
Thomas Scientific
Zinsser NA

TABLET TESTING SYSTEMS

AC Compacting LLC
Atlantic Scale Co
BÜCHI Labortechnik AG
Caliper Life Sciences
Fette Compacting
America
Key Intl
KIKUSUI USA
LT Industries

Mecmesin Corp
Sotax Corp
Texture Technologies
Corp

TEMPERATURE CIRCULATORS, CONSTANT

Buchiglas USA
Budzar Industries
CARON Products
Services
Degree Controls
Harvard Apparatus
Regenerative Medicine
Heat Exchange &
Transfer
IKA Works,
Lab, Analytical and
Process Equipment
Julabo USA
Olsa USA
Parameter Generation &
Control
Thermalcal

TEMPERATURE CONTROLLERS, HEATING EQUIPMENT

Bioptechs
Buchiglas USA
Budzar Industries
Chemical Transfer
Partnership Corp,
(CTP Corp)
Chromalox
Custom Heat LLC
Degree Controls
Despatch - ITW EAE,
Div of Illinois
Tool Works
Durex Industries
Eurotherm Brand,
Invensys Operations
Mgmt
Glas-Col LLC
Harvard Apparatus
Regenerative Medicine
Heat Exchange &
Transfer
Honeywell, Industrial
Measurement &
Controls Div
IKA Works,
Lab, Analytical and
Process Equipment
Isolation Systems
Julabo USA
Mokon
MultiTherm LLC
Olsa USA
Omega Engineering
Parameter Generation &
Control
Paratherm
Sensaphone
Thermalcal
Yokogawa Corp
of America

TEMPERATURE CONTROLLERS, LIQUID (LOW TEMPERATURES)

Buchiglas USA
Budzar Industries
Chemical Transfer
Partnership Corp,
(CTP Corp)
Chromalox
Durex Industries
Eppendorf
Eurotherm Brand,
Invensys Operations
Mgmt
Glas-Col LLC
Harvard Apparatus
Regenerative Medicine
Heat Exchange &
Transfer

IKA Works,
Lab, Analytical and
Process Equipment
Julabo USA
Mokon
Olsa USA
Omega Engineering
Paratherm
Sensaphone
Thermalcal
Yokogawa Corp
of America

TEMPERATURE INSTRUMENTATION

ABB, Process
Automation Div
Ashcroft
Atlantic Scale Co
Beamex
Bioptechs
Berkert Fluid Control
Systems
Carltext
Chromalox
Custom Heat LLC
Degree Controls
Durex Industries
Eurotherm Brand,
Invensys Operations
Mgmt
GE Sensing &
Inspection
Technologies
Hampshire Controls
Corp
IFM Efector
IKA Works,
Lab, Analytical and
Process Equipment
Julabo USA
Krohne
Marathon Products
Mesa Labs
Omega Engineering
Palmer Wahl
Temperature Products
Process Tek
Pyrometer Instrument
Co, PMA Process
Control Div
Sensaphone
Sensitech
Mesa Labs
Spirig Advanced
Technologies
TCP Reliable
Testo
TMI USA
Yokogawa Corp
of America

TEMPERATURE PROBES

AMETEK, Sensors,
Test & Calibration
Atlantic Scale Co
bioMérieux
Carltext
Chromalox
Conax Technologies
Custom Heat LLC
Degree Controls
Denver Instrument
Durex Industries
GE Sensing &
Inspection
Technologies
Glas-Col LLC
Hampshire Controls
Corp
Harvard Apparatus
Regenerative Medicine
IFM Efector
IKA Works,
Lab, Analytical and
Process Equipment
Julabo USA
Marathon Products
Mastco
Mesa Labs
Omega Engineering
Palmer Wahl
Temperature Products

TEMPERATURE SENSORS (RTD, THERMOCOUPLE)

AMETEK, Sensors,
Test & Calibration
Durex Industries
Hampshire Controls
Corp
Marathon Products
Palmer Wahl
Temperature Products
Sensaphone

Process Tek
Pyrometer Instrument
Co, PMA Process
Control Div
Sensaphone
Sensitech
Testo
Thermalcal
TMI USA

TEMPERATURE RECORDERS

Carltext
Custom Heat LLC
Degree Controls
Despatch - ITW EAE,
Div of Illinois
Tool Works
Durex Industries
Eurotherm Brand,
Invensys Operations
Mgmt
GE Sensing &
Inspection
Technologies
Honeywell, Industrial
Measurement &
Controls Div
IKA Works,
Lab, Analytical and
Process Equipment
Marathon Products
Mesa Labs
Omega Engineering
Palmer Wahl
Temperature Products
Process Tek
Pyrometer Instrument
Co, PMA Process
Control Div
Sensaphone
Sensitech
Spirig Advanced
Technologies
TCP Reliable
Testo
TMI USA
Yokogawa Corp
of America

TEMPERATURE SENSORS (RTD, THERMOCOUPLE)

AMETEK, Sensors,
Test & Calibration
Durex Industries
Hampshire Controls
Corp
Marathon Products
Palmer Wahl
Temperature Products
Sensaphone

TENSIMETERS

AMETEK, Sensors,
Test & Calibration
Chemultants Intl
Mecmesin Corp
Texture Technologies
Corp

TESTING DEVICES, CONTAINER LEAKS

Pfeiffer Vacuum
Process Tek
PTI Packaging
Technologies &
Inspection LLC
Robert Bosch Packaging
Technology,
Pharmaceutical
Operations
Seidenader
Maschinenbau GmbH
Sepha Ltd

TESTING DEVICES, HUMIDITY

Atlantic Scale Co
Cincinnati Sub-Zero
Degree Controls
E Instruments Intl

EdgeTech Moisture +
Humidity
moisttech
Omega Engineering
Sensitech
Surface Measurement
Systems Ltd NA
Testo
TMI USA
WA Hammond Drierite
Co Ltd

**TESTING DEVICES,
INHALERS**

First Sensor
Seidenader
Maschinenbau GmbH
Texture Technologies
Corp

**TESTING DEVICES,
PRESSURE**

AGR Intl
AMETEK, Sensors,
Test & Calibration
Ashcroft
Atlantic Scale Co
Beamex
First Sensor
MKS Instruments
Omega Engineering
Palmer Wahl
Temperature Products
Seidenader
Maschinenbau GmbH
TA Instruments
Testo
Thomas Scientific
TMI USA
Viatran

**TESTING DEVICES,
STERILITY**

Carltext
Celsis, Analytical
Services Div
ESCO Technologies,
Esco Pharma Factory
Nelson Labs, LLC
Process Tek
PTI Packaging
Technologies &
Inspection LLC

**TESTING DEVICES,
SUPPOSITORIES**

Texture Technologies
Corp

**TESTING DEVICES,
TABLET HARDNESS**

AMETEK, Sensors,
Test & Calibration
**Fette Compacting
America**
Key Intl
LT Industries
Mecmesin Corp
Newage Testing
Instruments, A
Subsidiary of AMETEK
Shimadzu Scientific
Instruments
Sotax Corp
TA Instruments
Texture Technologies
Corp

**TESTING DEVICES,
TEMPERATURE**

AMETEK, Sensors,
Test & Calibration
Atlantic Scale Co
Beamex
Degree Controls
E Instruments Intl
IKA Works,
Lab, Analytical and
Process Equipment
Julabo USA
Palmer Wahl
Temperature Products

Seidenader
Maschinenbau GmbH
Sensitech
Spirig Advanced
Technologies
Testo
Thermalcal
TMI USA

**TESTING DEVICES,
WATER**

ATAGO USA
CHEMetrics
Seidenader
Maschinenbau GmbH

**THERMAL
ANALYTICAL
INSTRUMENTS**

ATS RheoSystems,
Cannon Instrument Co
Degree Controls
Durex Industries
GE Sensing &
Inspection
Technologies
Hidden Analytical
Perkin Elmer Corp,
Environmental Health
Shimadzu Scientific
Instruments
TA Instruments
Testo
Waters Corp,
Waters Div

**THERMO-
GRAVIMETRIC
ANALYSIS
EQUIPMENT**

Hidden Analytical
Perkin Elmer Corp,
Environmental Health
Shimadzu Scientific
Instruments
TA Instruments

**THERMOMETERS,
ANIMAL**

Atlantic Scale Co

**THERMOMETERS,
BULB-TYPE**

Ashcroft
Atlantic Scale Co
General Lab &
Cleanroom Supply
Palmer Wahl
Temperature Products

**THERMOMETERS,
DIAL READING**

Ashcroft
Atlantic Scale Co
Carltext
General Lab &
Cleanroom Supply
Gilson Co
Omega Engineering
Palmer Wahl
Temperature Products

**THERMOMETERS,
DIFFERENTIAL**

Atlantic Scale Co
Omega Engineering
Palmer Wahl
Temperature Products
WIKA Instrument Corp

**THERMOMETERS,
DIGITAL READOUT**

AMETEK, Sensors,
Test & Calibration
Atlantic Scale Co
Gilson Co
Hampshire Controls
Corp
Marathon Products
Omega Engineering

Palmer Wahl
Temperature Products
Pyrometer Instrument
Co, PMA Process
Control Div
Sensitech
Testo
Yokogawa Corp
of America

**THERMOMETERS,
ELECTRICAL,
REMOTE READING**

Atlantic Scale Co
Hampshire Controls
Corp
Omega Engineering
Palmer Wahl
Temperature Products
Pyrometer Instrument
Co, PMA Process
Control Div
Sensitech
Testo
Two Dimensional
Instruments
VWR Intl LLC

**THERMOMETERS,
ELECTRONIC**

Atlantic Scale Co
Carltext
Custom Heat LLC
Durex Industries
GE Sensing &
Inspection
Technologies
Hampshire Controls
Corp
Harvard Apparatus
Regenerative Medicine
Marathon Products
Omega Engineering
Palmer Wahl
Temperature Products
Pyrometer Instrument
Co, PMA Process
Control Div
Sensitech
Two Dimensional
Instruments
VWR Intl LLC
Yokogawa Corp
of America

**THERMOMETERS,
RECORDING**

Atlantic Scale Co
Carltext
Marathon Products
Omega Engineering
Palmer Wahl
Temperature Products
Pyrometer Instrument
Co, PMA Process
Control Div
Sensitech
Testo
Two Dimensional
Instruments
VWR Intl LLC

**THERMOMETERS,
SURFACE**

Durex Industries
Marathon Products
Omega Engineering
Palmer Wahl
Temperature Products
Pyrometer Instrument
Co, PMA Process
Control Div
Testo

THERMOWELLS

Ashcroft
Durex Industries
Palmer Wahl
Temperature Products

**TIME-
TEMPERATURE
MONITORS**

Carltext
Chromalox
Marathon Products
Sensitech
Testo
Thomas Scientific
Two Dimensional
Instruments

**TISSUE CULTURE
APPARATUS AND
SUPPLIES**

Bel-Art Products
BioPro Intl
Biotech
Electron Microscopy
Sciences
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Globe Scientific
Harvard Apparatus
Regenerative Medicine
Kimble Chase, Life
Sciences & Research

**TITRATION
APPARATUS**

Brookhaven
Instruments Corp
Denver Instrument
JM Science
Malvern Instruments
Metrohm USA
Pion
Sci-Con
TA Instruments

**TITRATORS,
AMPEROMETRIC**

JM Science
Metrohm USA

**TITRATORS,
COLORIMETRIC**

BUCHI Corp
Denver Instrument
JM Science
Metrohm USA

**TITRATORS,
COULOMETRIC**

Denver Instrument
JM Science
Metrohm USA

**TITRATORS, KARL
FISCHER**

Denver Instrument
JM Science
Metrohm USA

**TITRATORS,
PHOTOMETRIC**

BUCHI Corp
JM Science
Metrohm USA

**TITRATORS,
POTENTIOMETRIC**

Denver Instrument
JM Science
Metrohm USA
Pion
Sci-Con

TOC ANALYZERS

Detectable Materials
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Sci-Con
Shimadzu Scientific
Instruments
SUEZ (Formerly
GE Analytical
Instruments)
TELEDYNE TEKMAR
VWR Intl LLC

TORQUE TESTER

Atlantic Scale Co
Blue Thunder
Technologies
CW Brabender
Instruments
IKA Works,
Lab, Analytical and
Process Equipment
Kaps-All Packaging
Systems
Mecmesin Corp
Mesa Labs
Sotax Corp

TRACE ANALYZERS

Bruker AXS
Neutronics
Tiger Optics LLC

**TRANS-
ILLUMINATORS**

General Lab &
Cleanroom Supply
Spectronics Corp
Syngene
VWR Intl LLC

TUBING, CAPILLARY

Fluorotherm Polymers
Globe Scientific
MicroSolv Technology
Corp
Molex, LLC, Polymicro
VWR Intl LLC

TURBIDIMETERS

Artel
BioPro Intl
Gilson Co
Omega Engineering
Thomas Scientific
VWR Intl LLC

**ULTRAFILTRATION
EQUIPMENT**

Kimble Chase, Life
Sciences & Research
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
VWR Intl LLC

**ULTRASONIC
CLEANING
EQUIPMENT**

BioTek Instruments
Branson Ultrasonics
Corp
Electron Microscopy
Sciences
Gilson Co
Glen Mills
IKA Works,
Lab, Analytical and
Process Equipment
L&R Mfg
Verder Scientific,
North America
VWR Intl LLC

UV LAMPS

Advion
Aquionics
Brookfield AMETEK
Camag Scientific
Electron Microscopy
Sciences
HEMCO Corp
Isolation Systems
Liberty Industries
Perkin Elmer Corp,
Environmental Health
Q-Lab Corp
Sci-Con
Spectronics Corp
Syngene
VWR Intl LLC
Xenon Corp
Xylem Services GmbH

UV PULSED

STERILIZATION
Brookfield AMETEK
BUCHI Corp
Xenon Corp

**VACUUM
EQUIPMENT**

Brookfield AMETEK
BUCHI Corp
BÜCHI Labortechnik AG
Dalton Electric Heating Co
De Dietrich Process
Systems
Elmo Rietschle
Products, Industrial
Products Group
EXAIR Corp
HEMCO Corp
Hidden Analytical
IKA Works,
Lab, Analytical and
Process Equipment
Isolation Systems
Kimble Chase, Life
Sciences & Research
Lee Industries,
Process Systems
& Equipment/Fluid
Transfer Div
LEYBOLD
MassVac
MEECO
MKS Instruments
Myers Mixers
Myers Vacuum
Repair Services
Nilfisk, Industrial
Vacuum Div
Pfeiffer Vacuum
Piab
Ronl
Tiger-Vac
VWR Intl LLC
Werner Mathis USA,
North America
Wintek Corp

**VACUUM PRESSURE
SENSORS**

Anderson-Negele
Ashcroft
Festo Corp
First Sensor
Isolation Systems
LEYBOLD
MEECO
MKS Instruments
Myers Vacuum
Repair Services
Pfeiffer Vacuum
Seidenader
Maschinenbau GmbH
Viatran

**VIAL INSPECTION
EQUIPMENT**

Loma Systems, an ITW Co
Micro Measurement Labs
PTI Packaging
Technologies &
Inspection LLC
**Robert Bosch Packaging
Technology,
Pharmaceutical
Operations**
Seidenader
Maschinenbau GmbH
Thomas Scientific
Victor Intl Mktg
WILCO AG

**VISCOSIMETERS,
AUTOMATIC**

Anton PAAR USA
ATAGO USA
ATS RheoSystems,
Cannon Instrument Co
Cambridge Viscosity
Cannon Instrument Co
Malvern Instruments
Texture Technologies
Corp

For vendor contact information, see Company Directory section.

VISCOMETERS, GENERAL PURPOSE

ATAGO USA
ATS RheoSystems,
Cannon Instrument Co
Automation Products,
Dynatrol®
Brookhaven
Instruments Corp
Cambridge Viscosity
Cannon Instrument Co
CW Brabender
Instruments
Gilson Co
Julabo USA
Kimble Chase, Life
Sciences & Research
Stony Brook
Scientific Ltd
TA Instruments
Testing Machines
Texture Technologies
Corp

VISCOMETERS, ZAHN-CUP

Brookfield AMETEK
Thomas Scientific

VOC MONITORS

Control Instruments
Corp
Kanomax USA
Mil-Ram Technology

VORTEXERS

Eppendorf
Glas-Col LLC
Globe Scientific

IKA Works,
Lab, Analytical and
Process Equipment
PRO Scientific
Scientific Industries
Troemner
Union Scientific Corp
Zinsser NA

WASHERS, GLASSWARE

Bel-Art Products
Belimed, Scientific Div
BioPro Intl
Branson Ultrasonics
Corp
Getinge USA,
Life Science
Girton Mfg Co,
Pharmaceutical Div
Lancer USA
Miele, Professional
Products Div
NexGen Enviro Systems

WATER ANALYZERS

Applied Analytics
ATAGO USA
Azbil North America,
BioVigilant Div
CHEMetrics
Honeywell, Industrial
Measurement &
Controls Div
IKA Works,
Lab, Analytical and
Process Equipment
SUEZ (Formerly
GE Analytical
Instruments)

WATER BATHS

BUCHI Corp
Buchiglas USA
Cannon Instrument Co
CARON Products
Services
Chemical Transfer
Partnership Corp,
(CTP Corp)
Eppendorf
Gilson Co
Globe Scientific
IKA Works,
Lab, Analytical and
Process Equipment
Julabo USA
Omega Engineering

WATER PURIFICATION, CARBON ADSORPTION

Activated Carbon
Services - PACS
Aries FilterWorks,
Div ResinTech
Detectable Materials
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany

WATER PURIFICATION, DEIONIZATION

Aries FilterWorks,
Div ResinTech
AWS Bio-Pharma
Technologies
CARON Products
Services
Dristeam

EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Getinge USA,
Life Science
Membrana
NexGen Enviro Systems
Parker Hannifin
Purolite

WATER PURIFICATION, DISTILLATION

Aries FilterWorks,
Div ResinTech
AWS Bio-Pharma
Technologies
CARON Products
Services
Detectable Materials
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
GEA Process
Engineering, GEA
Pharma Systems
Getinge USA,
Life Science
Milestone
NexGen Enviro Systems
Purolite

WATER PURIFICATION, OZONATION

AWS Bio-Pharma
Technologies
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
GMP Systems

Purolite
Xylem Services GmbH

WATER PURIFICATION, REVERSE-OSMOSIS

Aries FilterWorks,
Div ResinTech
AWS Bio-Pharma
Technologies
Detectable Materials
Dristeam
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Getinge USA,
Life Science
GMP Systems
Miele, Professional
Products Div
Purolite

WEIGHING AND SORTING SYSTEMS

AC Compacting LLC
Atlantic Scale Co
BioPro Intl
Loma Systems,
an ITW Co
MG America
Rockwell Automation

WEIGHING SYSTEMS, AUTOMATED

AC Compacting LLC
Atlantic Scale Co
Cozzoli Machine Co
Lock Inspection
Systems

Loma Systems,
an ITW Co
MG America
Optima Machinery Corp
Rockwell Automation
Wipotec Technology
North America
Zinsser NA

WIPERS

Blue Thunder
Technologies
Contec
Dycem
General Econopak
Liberty Industries
Perflex Corp
Porex Filtration group
Veltek Assocs

X-RAY DIFFRACTION

International Centre for
Diffraction Data
Shimadzu Scientific
Instruments
Verder Scientific,
North America

ZETA POTENTIAL ANALYZERS

Anton PAAR USA
Brookhaven
Instruments Corp
HORIBA Scientific
Malvern Instruments
Particle Sizing Systems
Quantachrome
Instruments
Thomas Scientific ■

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Technology
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**21 CFR
11 COMPLIANCE**

ABB, Process
Automation Div
AECOM
Applied Control
Engineering
Aris Global LLC
Artel
Aspect Automation
Associates of Cape Cod
Atlantic Scale Co
Automated Control
Concepts
Beamex
Biokinetics
Blue Mountain
Quality Resources
Bridge Assocs Intl
Brookhaven
Instruments Corp
Bruker AXS
Bruker Optics
CIMINFO Software
Clarkston Consulting
Complete Inspection
Systems
Computer Horizons Corp
Court Square Group
CSols
CustomVault
CyberMetrics Corp
Deacom
EduQuest
enLabel Global Services,
Life Sciences Div
ESCO Technologies,
Esco Pharma Factory
ETQ
Gavin Pharmaceutical
Services
GE Sensing & Inspection
Technologies
Global Vision
HORIBA Scientific
ICONICS
InfinityQS Intl
Intrasphere Technologies
IQVIA
JAF Consulting
LabWare
Lancesoft
LifeConEx LLC
LT Industries
Mar-Kov Computer
Systems
Mesa Labs
Metrohm USA
Mettler-Toledo
Hi-Speed, Product
Inspection
Mettler-Toledo Safeline,
Product Inspection
PCI: Pharmaceutical
Calibrations And
Instrumentati
Perkin Elmer Corp,
Environmental Health
PharmaDirections
PharmaSys
Pilgrim Quality Solutions
Prime Technologies
Process Tek
Process XL Consulting
Group LLC
ProcessPro Software,
A Div of Open Systems
PTC, NetRegulus Div
Qpharma,
A Q Pharma CO
QUMAS - Dassault
Systems
R. Kraft
RCM Technologies,
Life Sciences
Rees Scientific
Rockwell Automation
Schiff & Co

Sensitech
Sparta Systems
Testo
Texture Technologies
Corp
The Center for
Professional Innovation
& Education
Total Systems Design
UL Pure learning
Validation Assocs
ValiMation
VTS Consultants
Waters Corp,
Waters Div
Werum IT Solutions
America

ALARM MONITORING

Acromag
Applied Control
Engineering
Automated Control
Concepts
BinMaster,
Div Garner Industries
Bridge Assocs Intl
CustomVault
E Instruments Intl
ENV Services
ESCO Technologies,
Esco Pharma Factory
GE Sensing & Inspection
Technologies
Hampshire Controls Corp
ICONICS
InfinityQS Intl
Mesa Labs
Perigon Intl
RCM Technologies,
Life Sciences
Rees Scientific
Rockwell Automation
Sensaphone
Sensitech
Uehling Instrument Co
WAGO Corp

**APPLICATION
INTEGRATION**

ABB, Process
Automation Div
Applied Control
Engineering
Archi-Tech Systems
Automated Control
Concepts
CIMINFO Software
Clarkston Consulting
Complete Inspection
Systems
Court Square Group
CSols
enLabel Global Services,
Life Sciences Div
ICONICS
Intrasphere Technologies
JAF Consulting
Lancesoft
MagneMotion
Mar-Kov Computer
Systems
NNE Pharmaplan
Poplar Solutions, LLC
ProcessPro Software,
A Div of Open Systems
Protein Metrics
PTC, NetRegulus Div
RCM Technologies,
Life Sciences
Sparta Systems
The Ashvins Group
Total Systems Design
WAGO Corp
Waters Corp,
Waters Div
WL Gore & Assocs, Gore
PharmBIO Products

**APPLICATION
SUPPORT**

Applied Control
Engineering
Automated Control
Concepts
Bruker AXS
CIMINFO Software
Clarkston Consulting
Complete Inspection
Systems
Court Square Group
CSols
ICONICS
Intrasphere Technologies
JAF Consulting
Katzscan
Lancesoft
Lubrizol LifeSciences
NNE Pharmaplan
Optical Image
Technology
ProcessPro Software,
A Div of Open Systems
PTC, NetRegulus Div
Qpharma,
A Q Pharma CO
RCM Technologies,
Life Sciences
The Ashvins Group
Total Systems Design
Tri-Tronics Co
WAGO Corp
Waters Corp,
Waters Div
WL Gore & Assocs, Gore
PharmBIO Products

ASSET OPTIMIZATION

ABB, Process
Automation Div
Automated Control
Concepts
Beamex
CIMINFO Software
Clarkston Consulting
Court Square Group
CSols
CyberMetrics Corp
ICONICS
Marking Services
NNE Pharmaplan
PCI: Pharmaceutical
Calibrations And
Instrumentati
Perkin Elmer Corp,
Environmental Health
PTC, NetRegulus Div
RCM Technologies,
Life Sciences
Rockwell Automation

**AUTOMATIC ID/
BAR CODING**

AccuTime Systems
Applied Control
Engineering
Atlantic Scale Co
Automated Control
Concepts
CIMINFO Software
Complete Inspection
Systems
Court Square Group
enLabel Global Services,
Life Sciences Div
FSI Technologies
Label Mill
Lake Image Systems
Mar-Kov Computer
Systems
Marking Services
Matthews Intl Corp,
Matthews Marking
Systems
NNE Pharmaplan
Optical Image
Technology
Perigon Intl
ProcessPro Software,
A Div of Open Systems

Product Identification
Processing Systems
RCM Technologies,
Life Sciences
Rockwell Automation
SSE Technologies
TAL Technologies
Weber Packaging
Solutions
Werum IT Solutions
America
WIPOTEC-OCS

**AUTOMATION
SYSTEMS**

ABB, Process
Automation Div
Applied Control
Engineering
Aspect Automation
Atlantic Scale Co
Automated Control
Concepts
CIMINFO Software
Clear Automation
Comark Corp
Complete Inspection
Systems
enLabel Global Services,
Life Sciences Div
Festo Corp
FP Developments
FSI Technologies
GEA Process
Engineering, GEA
Pharma Systems
Getinge USA,
Life Science
ICONICS
InfinityQS Intl
IPS-Integrated Project
Services LLC
Keller Packaging
Engineering Group LLC
MagneMotion
NNE Pharmaplan
PDR-Separations
Perigon Intl
Prior Scientific
ProcessPro Software,
A Div of Open Systems
Protein Metrics
PTC, NetRegulus Div
RCM Technologies,
Life Sciences
Rockwell Automation
Sparta Systems
SPEC Process
Engineering &
Construction
Spiroflow Systems
The Rovisys Co
Total Systems Design
WAGO Corp
Yokogawa Corp
of America

**AUTOMATION
SYSTEMS, DESIGN
AND ENGINEERING**

A&B Process Systems,
JBT Corp
ABB, Process
Automation Div
AECOM
Applied Control
Engineering
Aspect Automation
Automated Control
Concepts
CIMINFO Software
Clear Automation
EAM
Festo Corp
FP Developments
FSI Technologies

GEA Process
Engineering, GEA
Pharma Systems
Getinge USA,
Life Science
ICONICS
IPS-Integrated Project
Services LLC
Keller Packaging
Engineering Group LLC
Lancesoft
MagneMotion
NNE Pharmaplan
Perigon Intl
Prior Scientific
ProMach, Kleenline
PTC, NetRegulus Div
RCM Technologies,
Life Sciences
Rees Scientific
Rockwell Automation
Ruland Engineering &
Consulting GmbH
SPEC Process
Engineering &
Construction
Spiroflow Systems
Symetix
The Rovisys Co
Total Systems Design
Tri-Tronics Co
ValiMation
WAGO Corp
Werum IT Solutions
America
Yokogawa Corp
of America

**BAR CODING DATA
COLLECTION**

Automated Control
Concepts
Services LLC
Katzscan
Label Mill
Marking Services
SSE Technologies
TAL Technologies
The Rovisys Co
Weber Packaging
Solutions
WIPOTEC-OCS

BATCH AUTOMATION

A&B Process Systems,
JBT Corp
ABB, Process
Automation Div
Applied Control
Engineering
Atlantic Scale Co
Automated Control
Concepts
Bruker AXS
CIMINFO Software
Clear Automation
enLabel Global Services,
Life Sciences Div
FP Developments
GEA Process
Engineering, GEA
Pharma Systems
ICONICS
InfinityQS Intl
MagneMotion
Mar-Kov Computer
Systems
NNE Pharmaplan
Perigon Intl
Prior Scientific
ProcessPro Software,
A Div of Open Systems
Protein Metrics
RCM Technologies,
Life Sciences
Rockwell Automation
Spiroflow Systems
The Rovisys Co
Total Systems Design



For vendor contact information, see Company Directory section.

ValiMation
WAGO Corp
Werum IT Solutions
America
Yokogawa Corp
of America

BUSINESS SYSTEMS CONNECTIVITY

ABB, Process
Automation Div
Applied Control
Engineering
Automated Control
Concepts
CIMINFO Software
Court Square Group
enLabel Global Services,
Life Sciences Div
ICONICS
Perigon Intl
Poplar Solutions, LLC
RCM Technologies,
Life Sciences
Sparta Systems
The Rovisys Co
Total Systems Design

CALIBRATION MANAGEMENT DATABASES

Artel
Atlantic Scale Co
Beamex
Blue Mountain
Quality Resources
CIMINFO Software
Court Square Group
CyberMetrics Corp
ENV Services
InfinityQS Intl
LabWare
NNE Pharmaplan
PCI: Pharmaceutical
Calibrations And
Instrumentati
Prime Technologies
PTC, NetRegulus Div
RCM Technologies,
Life Sciences
Rockwell Automation
Siemens Process
Industries + Drives

CALIBRATION SERVICES

AECOM
ALCAMI
Artel
Atlantic Scale Co
ATS RheoSystems,
Cannon Instrument Co
Court Square Group
ENV Services
Essco Calibration Lab
Fette Compacting

America
Gavin Pharmaceutical
Services
GE Sensing &
Inspection
Technologies
Hosokawa Micron
Powder Systems
InfinityQS Intl
Kanomax USA
Konica Minolta Sensing
Americas
Lancesoft
Mecmesin Corp
Mettler-Toledo
Hi-Speed, Product
Inspection
Natoli Engineering Co
Palmer Wahl
Temperature Products
PCI: Pharmaceutical
Calibrations And
Instrumentati
Perkin Elmer Corp,
Environmental Health

Process Tek
Product Identification
Processing Systems
Rockwell Automation
Siemens Process
Industries + Drives
SMI
Sotax Corp
Testing Machines
Testo
Total Systems Design
Troemner
Yokogawa Corp
of America

CHANGE CONTROL PROCEDURES

CIMINFO Software
Court Square Group
CSols
enLabel Global Services,
Life Sciences Div
ETQ
Intrasphere
Technologies
JAF Consulting
Lancesoft
NNE Pharmaplan
PharmaSys
Process Tek
Process XL Consulting
Group LLC
PTC, NetRegulus Div
Qpharma,
A Q Pharma CO
QUMAS - Dassault
Systems
RCM Technologies,
Life Sciences
Rockwell Automation
Schiff & Co
Siemens Process
Industries + Drives
Sparta Systems
Tri-Tronics Co
VTS Consultants

CHEMICAL STRUCTURE MODELING

Bruker AXS

CHROMATOGRAPHIC DATA SYSTEMS (IT)

CSols
JAF Consulting
NNE Pharmaplan
PDR-Separations
Perkin Elmer Corp,
Environmental Health
RCM Technologies,
Life Sciences
SSI/LabAlliance
Waters Corp,
Waters Div

CLIENT/SERVER ARCHITECTURE

ABB, Process
Automation Div
Applied Control
Engineering
Automated Control
Concepts
CIMINFO Software
Court Square Group
enLabel Global Services,
Life Sciences Div
ICONICS
Intrasphere
Technologies
JAF Consulting
Lancesoft
NNE Pharmaplan
Optical Image
Technology
Perigon Intl
Pryv SA
RCM Technologies,
Life Sciences
The Ashvins Group

CLINICAL TRIALS MANAGEMENT

Aris Global LLC
Arkios BioDevelopment
Intl
Cenduit LLC
Court Square Group
Cytel
Health Decisions
Intrasphere
Technologies
JAF Consulting
LabWare
Lancesoft
Pryv SA
PTC, NetRegulus Div
Rockwell Automation
Schiff & Co
Siemens Process
Industries + Drives
The Center for
Professional
Innovation & Education
Werum IT Solutions
America

COMPLIANCE SOFTWARE

Aris Global LLC
Atlantic Scale Co
Blue Mountain
Quality Resources
Capaccio Environmental
Engineering
CIMINFO Software
CyberMetrics Corp
enLabel Global Services,
Life Sciences Div
ETQ
ICONICS
InfinityQS Intl
JAF Consulting
Lancesoft
Mar-Kov Computer
Systems
Marking Services
Metrohm USA
Mettler-Toledo
Hi-Speed, Product
Inspection
Mettler-Toledo Safeline,
Product Inspection
NNE Pharmaplan
Poplar Solutions, LLC
Prime Technologies
Process XL Consulting
Group LLC
ProcessPro Software,
A Div of Open Systems
Pryv SA
PTC, NetRegulus Div
QUMAS - Dassault
Systems
RCM Technologies,
Life Sciences
Rees Scientific
Siemens Process
Industries + Drives
Sparta Systems
Systech Intl
ValiMation
Werum IT Solutions
America

COMPUTER-AIDED MANUFACTURING

CIMINFO Software
Court Square Group
Festo Corp
ICONICS
Mar-Kov Computer
Systems
Norman N Axelrod
Assocs, Optical Sensing
& Control Systems
Development Div
Perigon Intl
PTC, NetRegulus Div
RCM Technologies,
Life Sciences
Werum IT Solutions
America

COMPUTER SYSTEM VALIDATION TESTING

ABB, Process
Automation Div
Applied Control
Engineering
Automated Control
Concepts
Biokinetics
CIMINFO Software
Clarkston Consulting
Comark Corp
Court Square Group
CSols
EduQuest

Gavin Pharmaceutical
Services
InfinityQS Intl
Intrasphere
Technologies
IPS-Integrated Project
Services LLC
IQVIA
JAF Consulting
Lancesoft
NNE Pharmaplan
Perigon Intl
PharmaSys
Process XL Consulting
Group LLC
Qpharma,
A Q Pharma CO
RCM Technologies,
Life Sciences
Rees Scientific
Schiff & Co
Siemens Process
Industries + Drives
Sparta Systems
The Ashvins Group
The Center for
Professional
Innovation & Education
Total Systems Design
Tri-Tronics Co
Validation Assocs
ValiMation
VTS Consultants
Werum IT Solutions
America

COMPUTER-AIDED DESIGN

AECOM
Biokinetics
Capaccio Environmental
Engineering
enLabel Global Services,
Life Sciences Div
Festo Corp
IPS-Integrated Project
Services LLC
Keller Packaging
Engineering Group LLC
Lancesoft
Natoli Engineering Co
Perigon Intl
PTC, NetRegulus Div
RCM Technologies,
Life Sciences
Ruland Engineering &
Consulting GmbH
WAGO Corp

COMPUTER-AIDED MANUFACTURING

CIMINFO Software
Court Square Group
Festo Corp
ICONICS
Mar-Kov Computer
Systems
Norman N Axelrod
Assocs, Optical Sensing
& Control Systems
Development Div
Perigon Intl
PTC, NetRegulus Div
RCM Technologies,
Life Sciences
Werum IT Solutions
America

COMPUTER-ASSISTED NDA SERVICES

Lancesoft
PTC, NetRegulus Div
RCM Technologies,
Life Sciences
The Center for
Professional
Innovation & Education

COMPUTER-INTEGRATED MANUFACTURING

Automated Control
Concepts
CIMINFO Software
Court Square Group
Festo Corp
ICONICS
Keller Packaging
Engineering Group LLC
Norman N Axelrod
Assocs, Optical Sensing
& Control Systems
Development Div
ProcessPro Software,
A Div of Open Systems
RCM Technologies,
Life Sciences
The Center for
Professional
Innovation & Education
Total Systems Design
WAGO Corp
Werum IT Solutions
America
Yokogawa Corp
of America

COMPUTER-RELATED SYSTEM VALIDATION

ABB, Process
Automation Div
AECOM
Applied Control
Engineering
Biokinetics
Bridge Assocs Intl
CIMINFO Software
Clarkston Consulting
Court Square Group
CSols
EduQuest
Gavin Pharmaceutical
Services
ICONICS
InfinityQS Intl
IPS-Integrated Project
Services LLC
IQVIA
JAF Consulting
Lancesoft
NNE Pharmaplan
PharmaSys
Process XL Consulting
Group LLC
Qpharma,
A Q Pharma CO
RCM Technologies,
Life Sciences
Schiff & Co
Siemens Process
Industries + Drives
Sparta Systems
The Ashvins Group
The Center for
Professional
Innovation & Education
Total Systems Design
Validation Assocs
ValiMation
VTS Consultants

COMPUTER, DESKTOP

JAF Consulting

COMPUTER, LAPTOP

JAF Consulting
Lancesoft
Perigon Intl
RCM Technologies,
Life Sciences

CONFIGURATION STRATEGIES

ABB, Process
Automation Div
Automated Control
Concepts
CIMINFO Software
Court Square Group
CSols
Intrasphere
Technologies
JAF Consulting
Lancesoft
NNE Pharmaplan
Optical Image
Technology
RCM Technologies,
Life Sciences
Sparta Systems
WL Gore & Assocs,
Gore PharmBIO
Products

CONTROL AND OPTIMIZATION

Automated Control
Concepts
Biddle Sawyer Corp
Complete Inspection
Systems
IKA Works,
Lab, Analytical and
Process Equipment
Rockwell Automation

CONTROLLERS

Chromalox
Eurotherm Brand,
Invensys Operations
Mgmt
Festo Corp
Honeywell, Industrial
Measurement &
Controls Div
ICONICS
IKA Works,
Lab, Analytical and
Process Equipment
Omega Engineering
Perigon Intl
Rockwell Automation
Siemens Process
Industries + Drives
SPEC Process
Engineering &
Construction
Spiroflow Systems
WAGO Corp
Yokogawa Corp
of America

DATA ARCHIVING

Applied Control
Engineering
Archi-Tech Systems
Automated Control
Concepts
Ce3
CIMINFO Software
Court Square Group
enLabel Global Services,
Life Sciences Div
Getinge USA,
Life Science
ICONICS
IKA Works,
Lab, Analytical and
Process Equipment
JAF Consulting
NNE Pharmaplan
Optical Image
Technology
Poplar Solutions, LLC
ProcessPro Software,
A Div of Open Systems
PTC, NetRegulus Div
RCM Technologies,
Life Sciences
Rockwell Automation

Siemens Process Industries + Drives
Sparta Systems
Surety LLC
The Center for Professional Innovation & Education
WAGO Corp
Werum IT Solutions America
Yokogawa Corp of America

DATA COLLECTION AND MANAGEMENT

AccuTime Systems
Applied Control Engineering
Arkios BioDevelopment Intl
Artel
Automated Control Concepts
Beamex
Blue Mountain Quality Resources
Bruker, Daltonics
Bruker AXS
Capaccio Environmental Engineering
Ce3
CIMINFO Software
Comark Corp
Court Square Group
CyberMetrics Corp
Deacom
enLabel Global Services, Life Sciences Div
Festo Corp
Getinge USA, Life Science
Health Decisions
ICONICS
IKA Works, Lab, Analytical and Process Equipment
InfinityQS Intl
Intrasphere Technologies
Katzscan
Keller Packaging Engineering Group LLC
Kistler Morse
LabWare
Lake Image Systems
Lancesoft
Loma Systems, an ITW Co
Mettler Toledo PCE, Product Inspection
Mettler-Toledo Hi-Speed, Product Inspection
Mettler-Toledo Safeline, Product Inspection
Natoli Engineering Co
NNE Pharmaplan
Norman N Axelrod Assocs, Optical Sensing & Control Systems Development Div
Omega Engineering
Optical Image Technology
ProcessPro Software, A Div of Open Systems
Protein Metrics
Pryv SA
PTC, NetRegulus Div
Qpharma, A Q Pharma CO
RCM Technologies, Life Sciences
Rockwell Automation
Schiff & Co
Sensitech
Siemens Process Industries + Drives
SMI
Sparta Systems

SPEC Process Engineering & Construction
Surety LLC
TAL Technologies
The Ashvins Group
The Center for Professional Innovation & Education
WAGO Corp
Waters Corp, Waters Div
Werum IT Solutions America
Yokogawa Corp of America

DATA HANDLING

Artel
Bruker AXS
Ce3
CIMINFO Software
Court Square Group
Getinge USA, Life Science
Health Decisions
ICONICS
IKA Works, Lab, Analytical and Process Equipment
ImageTrak Software
InfinityQS Intl
JAF Consulting
NNE Pharmaplan
Norman N Axelrod Assocs, Optical Sensing & Control Systems Development Div
Optical Image Technology
Perigon Intl
Poplar Solutions, LLC
Protein Metrics
Pryv SA
PTC, NetRegulus Div
RCM Technologies, Life Sciences
Rockwell Automation
Schiff & Co
Sensitech
Siemens Process Industries + Drives
Sparta Systems
Surety LLC
TAL Technologies
The Center for Professional Innovation & Education
Waters Corp, Waters Div
Werum IT Solutions America
Yokogawa Corp of America

DATA INTEGRITY PROTECTION SERVICES

DATA LOGGERS

Carltext
Cold Chain Technologies
Court Square Group
Data Translation
DGH Corp
GE Sensing & Inspection Technologies
Health Decisions
Honeywell, Industrial Measurement & Controls Div
ICONICS
JAF Consulting
Kistler Morse
Mesa Labs
Omega Engineering

Palmer Wahl Temperature Products
Process Tek
Pryv SA
Pyrometer Instrument Co, PMA Process Control Div
Qpharma, A Q Pharma CO
Rockwell Automation
Rotronic
Sensaphone
Sensitech
Siemens Process Industries + Drives
Surety LLC
TAL Technologies
TCP Reliable
Testo
TMI USA
Two Dimensional Instruments
WAGO Corp
Werum IT Solutions America
Yokogawa Corp of America

DATA SYSTEMS

Automated Control Concepts
JAF Consulting
Katzscan
Poplar Solutions, LLC
Pryv SA
Rockwell Automation
Sensitech
WIPOTEC-OCS

DATA WAREHOUSING

Archi-Tech Systems
Automated Control Concepts
Bruker, Daltonics
Ce3
CIMINFO Software
Court Square Group
CSR Pharma Services
Health Decisions
ICONICS
Intrasphere Technologies
JAF Consulting
Lancesoft
NNE Pharmaplan
PTC, NetRegulus Div
Qpharma, A Q Pharma CO
RCM Technologies, Life Sciences
Schiff & Co
Sparta Systems
Surety LLC
VAI (Vormittag Assocs)

DATA STORAGE DEVICES

Court Square Group
Health Decisions
Kanguru Solutions
Kistler Morse
RCM Technologies, Life Sciences
Sensitech
WAGO Corp

DATABASE

Applied Control Engineering
Archi-Tech Systems
Beamex
BioProcess Technology Consultants
Bruker, Daltonics
Ce3
CIMINFO Software
Court Square Group
enLabel Global Services, Life Sciences Div
Health Decisions

ICONICS
International Centre for Diffraction Data
Intrasphere Technologies
JAF Consulting
Katzscan
Lancesoft
PCI: Pharmaceutical Calibrations And Instrumentati
Perigon Intl
Pryv SA
PTC, NetRegulus Div
Qpharma, A Q Pharma CO
RCM Technologies, Life Sciences
Schiff & Co
Sensitech
Sparta Systems
Surety LLC

DATABASE SYSTEMS

Applied Control Engineering
Automated Control Concepts
Beamex
BinMaster, Div Garner Industries
Blue Mountain Quality Resources
Bruker, Daltonics
CIMINFO Software
Court Square Group
Health Decisions
ICONICS
ImageTrak Software
Intrasphere Technologies
JAF Consulting
Katzscan
Lancesoft
Mar-Kov Computer Systems
NNE Pharmaplan
Optical Image Technology
PCI: Pharmaceutical Calibrations And Instrumentati
ProcessPro Software, A Div of Open Systems
Pryv SA
PTC, NetRegulus Div
Qpharma, A Q Pharma CO
RCM Technologies, Life Sciences
Richman Chemical
Schiff & Co
Sensitech
Sparta Systems
Surety LLC
Total Systems Design
Werum IT Solutions America
WIPOTEC-OCS

DISTRIBUTED CONTROL SYSTEMS

ABB, Process Automation Div
Applied Control Engineering
Automated Control Concepts
Court Square Group
DGH Corp
ICONICS
JAF Consulting
NNE Pharmaplan
Perigon Intl
Qpharma, A Q Pharma CO
RCM Technologies, Life Sciences
Rockwell Automation

Siemens Process Industries + Drives
SPEC Process Engineering & Construction
The Rovisys Co
Total Systems Design
Yokogawa Corp of America

DOCUMENT MANAGEMENT SYSTEMS (DMS)

BioProcess Technology Consultants
Ce3
CIMINFO Software
Court Square Group
CSols
enLabel Global Services, Life Sciences Div
ETQ
Health Decisions
Intrasphere Technologies
JAF Consulting
Katzscan
Lancesoft
NNE Pharmaplan
Optical Image Technology
Pilgrim Quality Solutions
Poplar Solutions, LLC
PTC, NetRegulus Div
Qpharma, A Q Pharma CO
QUMAS - Dassault Systemes
RCM Technologies, Life Sciences
Rockwell Automation
Schiff & Co
Siemens Process Industries + Drives
Surety LLC
TCP Reliable
The Center for Professional Innovation & Education

DOCUMENTATION TOOLS

Beamex
CIMINFO Software
Court Square Group
enLabel Global Services, Life Sciences Div
Gavin Pharmaceutical Services
Health Decisions
InfinityQS Intl
Lancesoft
NNE Pharmaplan
Protein Metrics
PTC, NetRegulus Div
Qpharma, A Q Pharma CO
RCM Technologies, Life Sciences
Sensitech
Siemens Process Industries + Drives
SSE Technologies

E-BUSINESS SERVICES

Clarkston Consulting
Court Square Group
Intrasphere Technologies
JAF Consulting
Katzscan
Lancesoft
Optical Image Technology
Pryv SA
PTC, NetRegulus Div
RCM Technologies, Life Sciences

E-COMMERCE

Deacom
Katzscan
Keller Packaging Engineering Group LLC
Lancesoft
Optical Image Technology
ProcessPro Software, A Div of Open Systems
RCM Technologies, Life Sciences
SSE Technologies

ELECTRIC CONTROL PRODUCTS

Chromalox
Court Square Group
Festo Corp
FSI Technologies
RCM Technologies, Life Sciences
WAGO Corp
Yokogawa Corp of America

ELECTRONIC BATCH RECORD SYSTEMS

ABB, Process Automation Div
Applied Control Engineering
Atlantic Scale Co
Automated Control Concepts
CIMINFO Software
Clarkston Consulting
Court Square Group
CSols
Deacom
Honeywell, Industrial Measurement & Controls Div
InfinityQS Intl
JAF Consulting
Lancesoft
Mar-Kov Computer Systems
NNE Pharmaplan
Perigon Intl
PTC, NetRegulus Div
Qpharma, A Q Pharma CO
QUMAS - Dassault Systemes
Rockwell Automation
Ruland Engineering & Consulting GmbH
Siemens Process Industries + Drives
SSE Technologies
The Rovisys Co
Total Systems Design
Werum IT Solutions America
Yokogawa Corp of America

ELECTRONIC DOCUMENT MANAGEMENT SYSTEMS

Atlantic Scale Co
Beamex
BioProcess Technology Consultants
Ce3
CIMINFO Software
Court Square Group
Deacom
enLabel Global Services, Life Sciences Div
Health Decisions
Intrasphere Technologies
JAF Consulting
Lancesoft
Mar-Kov Computer Systems
Marking Services

For vendor contact information, see Company Directory section.

Optical Image Technology
 Pilgrim Quality Solutions
 Poplar Solutions, LLC
 PTC, NetRegulus Div
 Qpharma,
 A Q Pharma CO
 QUMAS - Dassault Systemes
 RCM Technologies, Life Sciences
 Rockwell Automation
 Siemens Process Industries + Drives
 Sparta Systems
 SSE Technologies
 Surety LLC
 The Center for Professional Innovation & Education
 Waters Corp,
 Waters Div

ELECTRONIC RECORDS

ABB, Process
 Automation Div
 Applied Control Engineering
 Atlantic Scale Co
 Automated Control Concepts
 Beamex
 Ce3
 CIMINFO Software
 Complete Inspection Systems
 Court Square Group
 Deacom
 enLabel Global Services, Life Sciences Div
 Health Decisions
 ICONICS
 InfinityQS Intl
 JAF Consulting
 Lancesoft
 Mar-Kov Computer Systems
 Optical Image Technology
 Perigon Intl
 Poplar Solutions, LLC
 Process Tek
 Process XL Consulting Group LLC
 PTC, NetRegulus Div
 Qpharma,
 A Q Pharma CO
 QUMAS - Dassault Systemes
 RCM Technologies, Life Sciences
 Ruland Engineering & Consulting GmbH
 Sensitech
 Siemens Process Industries + Drives
 Sparta Systems
 Surety LLC
 The Center for Professional Innovation & Education
 The Rovisys Co
 UL Pure learning
 Waters Corp,
 Waters Div
 Werum IT Solutions America
 Yokogawa Corp of America

ELECTRONIC SIGNATURE/EID

Applied Control Engineering
 Atlantic Scale Co
 Beamex
 Ce3
 CIMINFO Software
 Clarkston Consulting
 Court Square Group

enLabel Global Services, Life Sciences Div
 Health Decisions
 JAF Consulting
 Mar-Kov Computer Systems
 NNE Pharmaplan
 Optical Image Technology
 Process XL Consulting Group LLC
 ProcessPro Software, A Div of Open Systems
 PTC, NetRegulus Div
 Qpharma,
 A Q Pharma CO
 QUMAS - Dassault Systemes
 RCM Technologies, Life Sciences
 Ruland Engineering & Consulting GmbH
 Sensitech
 Siemens Process Industries + Drives
 Sparta Systems
 Surety LLC
 The Center for Professional Innovation & Education
 Waters Corp,
 Waters Div
 Werum IT Solutions America

EMPLOYEE CERTIFICATION/TRAINING

Capaccio Environmental Engineering
 CIMINFO Software
 Court Square Group
Fette Compacting America
 Gavin Pharmaceutical Services
 Health Decisions
 Intrasphere Technologies
 PharmaSys
 RCM Technologies, Life Sciences
 Schiff & Co
 Siemens Process Industries + Drives
 Sparta Systems
 The Center for Professional Innovation & Education
 UL Pure learning
Veltek Assocs

ENTERPRISE COMPLIANCE MANAGEMENT

Aris Global LLC
 Blue Mountain Quality Resources
 CIMINFO Software
 Court Square Group
 ETQ
 ICONICS
 InfinityQS Intl
 Intrasphere Technologies
 JAF Consulting
 Pilgrim Quality Solutions
 Process XL Consulting Group LLC
 PTC, NetRegulus Div
 Qpharma,
 A Q Pharma CO
 QUMAS - Dassault Systemes
 RCM Technologies, Life Sciences
 Siemens Process Industries + Drives
 Sparta Systems
 UL Pure learning

ENTERPRISE HISTORIAN

ABB, Process
 Automation Div
 Applied Control Engineering
 Automated Control Concepts
 CIMINFO Software
 ICONICS
 Perigon Intl
 PTC, NetRegulus Div
 RCM Technologies, Life Sciences
 Ruland Engineering & Consulting GmbH
 Siemens Process Industries + Drives
 Total Systems Design

ENTERPRISE QUALITY MANAGEMENT

Atlantic Scale Co
 Blue Mountain Quality Resources
 CIMINFO Software
 Court Square Group
 CSols
 CyberMetrics Corp
 ETQ
 ICONICS
 InfinityQS Intl
 Intrasphere Technologies
 JAF Consulting
 Pilgrim Quality Solutions
 PTC, NetRegulus Div
 Qpharma,
 A Q Pharma CO
 QualityHub
 QUMAS - Dassault Systemes
 RCM Technologies, Life Sciences
 Ruland Engineering & Consulting GmbH
 Schiff & Co
 Sparta Systems
 The Center for Professional Innovation & Education

ENTERPRISE RESOURCE PLANNING (ERP)

Atlantic Scale Co
 Clarkston Consulting
 Deacom
 ICONICS
 Katzscan
 Mar-Kov Computer Systems
 Optical Image Technology
 ProcessPro Software, A Div of Open Systems
 PTC, NetRegulus Div
 Qpharma,
 A Q Pharma CO
 RCM Technologies, Life Sciences
 Ruland Engineering & Consulting GmbH
 Siemens Process Industries + Drives
 VAI (Vormittag Assocs)

FLEXIBLE AUTOMATION-ROBOTICS

Aspect Automation
 Spiroflow Systems

GRAPHICS

Automated Control Concepts
 Global Vision
 ICONICS
 Lancesoft

NNE Pharmaplan
 The Rovisys Co

GRAPHICS SYSTEMS

Automated Control Concepts
 enLabel Global Services, Life Sciences Div
 Global Vision
 ICONICS
 NNE Pharmaplan
 Perigon Intl
 RCM Technologies, Life Sciences
 The Rovisys Co

I/O SYSTEMS

ABB, Process
 Automation Div
 Applied Control Engineering
 Automated Control Concepts
 Comark Corp
 Court Square Group
 DGH Corp
 Eurotherm Brand, Invensys Operations Mgmt
 Festo Corp
 NNE Pharmaplan
 Perigon Intl
 RCM Technologies, Life Sciences
 Rockwell Automation
 Siemens Process Industries + Drives
 TAL Technologies
 The Rovisys Co
 WAGO Corp
 Yokogawa Corp of America

IMAGE PROCESSING AND ANALYSIS SOFTWARE

ACR Image Matrix
 Bruker AXS
 Complete Inspection Systems
 FSI Technologies
 ISRA Surface Vision
 NNE Pharmaplan
 Norman N Axelrod Assocs, Optical Sensing & Control Systems Development Div
 Proditex
 Rockwell Automation

INSTRUMENT AND COMPUTER INTERFACES

ABB, Process
 Automation Div
 Applied Control Engineering
 Chromalox
 Comark Corp
 Court Square Group
 ICONICS
 JAF Consulting
 Perigon Intl
 Protein Metrics
 RCM Technologies, Life Sciences
 Rockwell Automation
 Siemens Process Industries + Drives
 SMI
 SPEC Process Engineering & Construction
 TAL Technologies
 WAGO Corp
 Waters Corp,
 Waters Div
 Werum IT Solutions America
 Yokogawa Corp of America

INTEGRATION SERVICES

ABB, Process
 Automation Div
 Applied Control Engineering
 Automated Control Concepts
 CIMINFO Software
 Clarkston Consulting
 Complete Inspection Systems
 Court Square Group
 CSols
 enLabel Global Services, Life Sciences Div
 Health Decisions
 ICONICS
 IMA North America
 InfinityQS Intl
 Integrated Packaging Systems
 Intrasphere Technologies
 IPS-Integrated Project Services LLC
 LabWare
 Perigon Intl
 ProcessPro Software, A Div of Open Systems
 ProMach, Kleenline
 PTC, NetRegulus Div
 RCM Technologies, Life Sciences
 Sensitech
 Siemens Process Industries + Drives
 Sparta Systems
 SPEC Process Engineering & Construction
 Total Systems Design
 Yokogawa Corp of America

INTELLECTUAL PROPERTY PROTECTION SERVICES

Surety LLC

LABELING AND RANDOMIZATION SYSTEMS, CLINICAL TRIAL

Cenduit LLC
 CIMINFO Software
 Citation Clinical Labeling Systems
 Clinical Systems
 Court Square Group
 enLabel Global Services, Life Sciences Div
 Health Decisions
 Intrasphere Technologies
 JAF Consulting
 Label Mill
 NNE Pharmaplan
 Schiff & Co
 Siemens Process Industries + Drives
 The Center for Professional Innovation & Education

LABORATORY INFORMATION MANAGEMENT SYSTEMS

Accelerated Technology
 Labs, Information Technology Div
 Bridge Assocs Intl
 Bruker, Daltonics
 Court Square Group
 CSols
 Health Decisions
 ICONICS

Intrasphere Technologies
 JAF Consulting
 LabWare
 Lancesoft
 Mar-Kov Computer Systems
 Qpharma,
 A Q Pharma CO
 RCM Technologies, Life Sciences
 Surety LLC
 The Ashvins Group
 The Center for Professional Innovation & Education
 The Rovisys Co
 Thomas Scientific

LEARNING SYSTEMS

JAF Consulting

LOGISTICS

SSE Technologies

LOOP AUDITING AND OPTIMIZATION

ABB, Process
 Automation Div
 Honeyman Group Ltd
 JAF Consulting
 NNE Pharmaplan
 Sparta Systems

MACHINE VISION SYSTEMS

Applied Control Engineering
 Clear Automation
 Complete Inspection Systems
 Emhart Glass Mfg
 enLabel Global Services, Life Sciences Div
 FP Developments
 FSI Technologies
 Global Vision
 Hapa & Laetus
 ISRA Surface Vision
 Label Mill
 Lake Image Systems
 Mettler Toledo PCE,
 Product Inspection
 NNE Pharmaplan
 Norman N Axelrod Assocs, Optical Sensing & Control Systems Development Div
 Omega Design Corp
 Perigon Intl
 RCM Technologies, Life Sciences
 Seidenader Maschinenbau GmbH
 Symetix
 Systech Intl
 WAGO Corp
 Zed Industries

MAINFRAMES

Court Square Group
 Lancesoft
 RCM Technologies, Life Sciences

MAINTENANCE MANAGEMENT

AWS Bio-Pharma Technologies
 Beamex
 Blue Mountain Quality Resources
 CIMINFO Software
 Court Square Group
 CyberMetrics Corp
 ICONICS
 PCI: Pharmaceutical Calibrations And Instrumentati

Perkin Elmer Corp,
Environmental Health
PTC, NetRegulus Div
RCM Technologies,
Life Sciences
Remi
Ruland Engineering &
Consulting GmbH
Siemens Process
Industries + Drives

MANUFACTURING EXECUTION SYSTEMS (MES)

ABB, Process
Automation Div
Applied Control
Engineering
Automated Control
Concepts
CIMINFO Software
ICONICS
InfinityQS Intl
JAF Consulting
Mar-Kov Computer
Systems
Perigon Intl
PharmaDirections
PTC, NetRegulus Div
Qpharma,
A Q Pharma CO
RCM Technologies,
Life Sciences
Rockwell Automation
Ruland Engineering &
Consulting GmbH
Siemens Process
Industries + Drives
Total Systems Design
Werum IT Solutions
America
Yokogawa Corp
of America

MANUFACTURING RESOURCE/ MATERIAL REQUIREMENTS PLANNING (MRP)

Court Square Group
Deacom
ICONICS
JAF Consulting
Katzscan
Mar-Kov Computer
Systems
NNE Pharmaplan
ProcessPro Software,
A Div of Open Systems
Qpharma,
A Q Pharma CO
RCM Technologies,
Life Sciences
Rockwell Automation
Siemens Process
Industries + Drives

MATERIAL SAFETY DATA SHEET

Deacom
ImageTrak Software
Intrasphere
Technologies
Mar-Kov Computer
Systems
ProcessPro Software,
A Div of Open Systems
RCM Technologies,
Life Sciences
US Pharmacopeia (USP)
Werum IT Solutions
America

MATERIALS DATABASE

Bruker AXS
CIMINFO Software
ImageTrak Software

International Centre for
Diffraction Data
Katzscan
Prvv SA
PTC, NetRegulus Div
RCM Technologies,
Life Sciences

MODELING

Biokinetics
BioProcess Technology
Consultants
Jenike & Johanson
Minitab
NNE Pharmaplan

MONITORING DEVICES

Acromag
BinMaster,
Div Garner Industries
Chromalox
Comark Corp
Court Square Group
CustomVault
Festo Corp
GE Sensing &
Inspection
Technologies
Health Decisions
ICONICS
Kanomax USA
Kistler Morse
Lenox Instrument Co
LT Industries
Ludeca
MARKEN
Mettler-Toledo
Hi-Speed, Product
Inspection
Mettler-Toledo Safeline,
Product Inspection
Mil-Ram Technology
NNE Pharmaplan
Norman N Axelrod
Assocs, Optical Sensing
& Control Systems
Development Div
PTC, NetRegulus Div
RCM Technologies,
Life Sciences
Sensaphone
Sensitech
TCP Reliable
The Ashvins Group
Thomas Scientific
Tri-Tronics Co
Two Dimensional
Instruments
Uehling Instrument Co
WAGO Corp
Werum IT Solutions
America
Yokogawa Corp
of America

NETWORKING

Applied Control
Engineering
Automated Control
Concepts
Court Square Group
ICONICS
Lancesoft
NNE Pharmaplan
Perigon Intl
Prvv SA
RCM Technologies,
Life Sciences
The Rovisys Co
WAGO Corp
Werum IT Solutions
America

ON-LINE SERVICES

Academy Savant
Court Square Group
ETC, Sterilization
Systems
ICONICS
InfinityQS Intl

RCM Technologies,
Life Sciences
Richman Chemical
Werum IT Solutions
America

OUTPUT DEVICES

NNE Pharmaplan
RCM Technologies,
Life Sciences
WAGO Corp

PERSONAL DIGITAL ASSISTANT

RCM Technologies,
Life Sciences

PHARMACEUTICAL DATABASE

Archi-Tech Systems
BioProcess Technology
Consultants
Bruker, Daltonics
CIMINFO Software
Court Square Group
ICONICS
International Centre for
Diffraction Data
JAF Consulting
Lancesoft
NNE Pharmaplan
PTC, NetRegulus Div
RCM Technologies,
Life Sciences
Richman Chemical
Schiff & Co
Sparta Systems
Surety LLC

PLOTTERS

Court Square Group
Perigon Intl
WAGO Corp

POWER PROTECTION

Perigon Intl
WAGO Corp

PRINTERS

Atlantic Scale Co
Court Square Group
enLabel Global Services,
Life Sciences Div
Global Vision
Hapa & Laetus
Label Mill
Lancesoft
Matthews Intl Corp,
Matthews Marking
Systems
Veltek Assocs

PROCESS AUTOMATION

A&B Process Systems,
JBT Corp
ABB, Process
Automation Div
AECOM
Applied Control
Engineering
Aspect Automation
Automated Control
Concepts
Bruker AXS
CIMINFO Software
Clarkston Consulting
Court Square Group
El Assocs, Architects &
Engineers, PA
Festo Corp
GEA Process
Engineering, GEA
Pharma Systems
Health Decisions
ICONICS
InfinityQS Intl

Intrasphere
Technologies
IPS-Integrated Project
Services LLC
Kistler Morse
MagneMotion
Mar-Kov Computer
Systems
Metrohm USA
Niagara Meters
Norman N Axelrod
Assocs, Optical Sensing
& Control Systems
Development Div
Omega Engineering
Perigon Intl
Poplar Solutions, LLC
ProcessPro Software,
A Div of Open Systems
Protein Metrics
Rockwell Automation
Ruland Engineering &
Consulting GmbH
Siemens Process
Industries + Drives
Sparta Systems
SPEC Process
Engineering &
Construction
Spiroflow Systems
Surety LLC
Symetix
The Rovisys Co
Total Systems Design
ValiMation
WAGO Corp
Werum IT Solutions
America
Yokogawa Corp
of America

PROCESS CONTROL SYSTEMS

Acromag
Automated Control
Concepts
AWS Bio-Pharma
Technologies
Bruker AXS
Charles Ross & Son Co
Chromalox
CIMINFO Software
Comark Corp
El Assocs, Architects &
Engineers, PA
ESC, Electrol
Specialties Co
GEA Process
Engineering, GEA
Pharma Systems
Health Decisions
Honeywell, Industrial
Measurement &
Controls Div
ICONICS
InfinityQS Intl
Kistler Morse
Krohne
Lee Industries,
Process Systems
& Equipment/Fluid
Transfer Div
Lenox Instrument Co
LJ Star
LT Industries
Metrohm USA
Mettler Toledo PCE,
Product Inspection
Mettler-Toledo
Hi-Speed, Product
Inspection
Mettler-Toledo Safeline,
Product Inspection
moisttech
Niagara Meters
Norman N Axelrod
Assocs, Optical Sensing
& Control Systems
Development Div
Perigon Intl

Prior Scientific
Pyrometer Instrument
Co, PMA Process
Control Div
Qpharma,
A Q Pharma CO
Rockwell Automation
Ruland Engineering &
Consulting GmbH
Schiff & Co
Siemens Process
Industries + Drives
SMI
Sparta Systems
Spiroflow Systems
Surety LLC
Symetix
The Rovisys Co
Total Systems Design
Tri-Tronics Co
Viatran
Werum IT Solutions
America
Yokogawa Corp
of America

PROCESS DEVELOPMENT/OPTIMIZATION

AECOM
Aspect Automation
BIOQUELL,
Life Sciences
Bruker AXS
Chromalox
CIMINFO Software
Court Square Group
El Assocs, Architects &
Engineers, PA
EPCOT Intl
GEA Process
Engineering, GEA
Pharma Systems
Health Decisions
ICONICS
InfinityQS Intl
JAF Consulting
LifeConEx LLC
MagneMotion
Metrohm USA
Mettler Toledo PCE,
Product Inspection
NNE Pharmaplan
Perigon Intl
Process Tek
Protein Metrics
PTC, NetRegulus Div
RCM Technologies,
Life Sciences
Rockwell Automation
Ruland Engineering &
Consulting GmbH
Siemens Process
Industries + Drives
SMI
Sparta Systems
SPEC Process
Engineering &
Construction
Spiroflow Systems
Surety LLC
The Center for
Professional
Innovation & Education
Tunnell Consulting
WAGO Corp
Werum IT Solutions
America

PROCESS MONITORING

Acromag
AECOM
Applied Control
Engineering
Automated Control
Concepts
BinMaster,
Div Garner Industries
Bruker AXS
Chromalox

Comark Corp
Court Square Group
D-Star Instruments
Eurotherm Brand,
Invensys Operations
Mgmt
FSI Technologies
GE Sensing &
Inspection
Technologies
GEA Process
Engineering, GEA
Pharma Systems
Health Decisions
ICONICS
InfinityQS Intl
Intrasphere
Technologies
Krohne
Lenox Instrument Co
LJ Star
LT Industries
Mesa Labs
Metrohm USA
Mettler-Toledo
Hi-Speed, Product
Inspection
Mettler-Toledo Safeline,
Product Inspection
Mil-Ram Technology
moisttech
Neutronics
Norman N Axelrod
Assocs, Optical Sensing
& Control Systems
Development Div
Omega Engineering
OPTIMA pharma GmbH
Palmer Wahl
Temperature Products
Perigon Intl
Protein Metrics
Pyrometer Instrument
Co, PMA Process
Control Div
QualiTru Sampling
Systems
RCM Technologies,
Life Sciences
Rockwell Automation
Ruland Engineering &
Consulting GmbH
Siemens Process
Industries + Drives
Sparta Systems
SPEC Process
Engineering &
Construction
Surety LLC
Testo
The Rovisys Co
Tri-Tronics Co
Tunnell Consulting
Uehling Instrument Co
Viatran
WAGO Corp
Werum IT Solutions
America
Yokogawa Corp
of America

PROCESS VALIDATION

AECOM
Biokinetics
BIOQUELL,
Life Sciences
CIMINFO Software
Clarkston Consulting
Court Square Group
CSols
Gavin Pharmaceutical
Services
GE Sensing &
Inspection
Technologies
GEA Process
Engineering, GEA
Pharma Systems
Getinge USA,
Life Science
Health Decisions

Honeyman Group Ltd
 ICONICS
 InfinityQS Intl
 Intellitech
 JAF Consulting
 Lancesoft
 LifeConEx LLC
 Mesa Labs
 Mettler-Toledo
 Hi-Speed, Product
 Inspection
 Mettler-Toledo Safeline,
 Product Inspection
Mikart
 OPTIMA pharma GmbH
 PharmaSys
 Process Tek
 ProcessPro Software,
 A Div of Open Systems
 Protein Metrics
 PTC, NetRegulus Div
 Qpharma,
 A Q Pharma CO
 QualiTru Sampling
 Systems
 RCM Technologies,
 Life Sciences
 Ruland Engineering &
 Consulting GmbH
 Schiff & Co
 Siemens Process
 Industries + Drives
 Sparta Systems
 Surety LLC
 The Center for
 Professional
 Innovation & Education
 TMI USA
 Total Systems Design
 Tri-Tronics Co
 Tunnell Consulting
 ValiMation
 VTS Consultants
 Werum IT Solutions
 America
 Yokogawa Corp
 of America

PROGRAMMABLE LOGIC CONTROLLERS

ABB, Process
 Automation Div
 Applied Control
 Engineering
 Automated Control
 Concepts
**Charles Ross &
 Son Co**
 Chromalox
 CIMINFO Software
 Festo Corp
 Isolation Systems
 NNE Pharmaplan
 Omega Engineering
 Perigon Intl
 Rockwell Automation
 Siemens Process
 Industries + Drives
 SPEC Process
 Engineering &
 Construction
 Spiroflow Systems
 The Rovisys Co
 WAGO Corp
 Yokogawa Corp
 of America

PROJECT MANAGEMENT

ABB, Process
 Automation Div
 AECOM
 Applied Control
 Engineering
 Arkios BioDevelopment
 Intl

Best Project Mgmt
 Biokinetics
 BioProcess Technology
 Consultants
 Bruker, Daltonics
 Ce3
 CIMINFO Software
 Clarkston Consulting
 Court Square Group
 CSols
 El Assocs, Architects &
 Engineers, PA
 enLabel Global Services,
 Life Sciences Div
 Gavin Pharmaceutical
 Services
 GE A Process
 Engineering, GE A
 Pharma Systems

GEMU Valves
 Health Decisions
 ICONICS
 International Mfg Assn,
 Finance
 Intrasphere
 Technologies
 IPS-Integrated Project
 Services LLC
 Isolation Systems
 JAF Consulting
 Lancesoft
 Optical Image
 Technology
 PCI: Pharmaceutical
 Calibrations And
 Instrumentati
 Perigon Intl
 Process XL Consulting
 Group LLC
 Pryv SA
 Qpharma,
 A Q Pharma CO
 R. Kraft
 RCM Technologies,
 Life Sciences
 Richman Chemical
 Ruland Engineering &
 Consulting GmbH
 Siemens Process
 Industries + Drives
 SPEC Process
 Engineering &
 Construction
 The Ashvins Group
 The Center for
 Professional
 Innovation & Education
 Tunnell Consulting
 VTS Consultants
 Werum IT Solutions
 America

QUALIFICATION STUDIES

Biokinetics
 Court Square Group
 CSols
 ENV Services
 Gavin Pharmaceutical
 Services
 GE Sensing &
 Inspection
 Technologies
 IPS-Integrated Project
 Services LLC
 JAF Consulting
 NNE Pharmaplan
 PCI: Pharmaceutical
 Calibrations And
 Instrumentati
 Process Tek
 Protein Metrics
 Qpharma,
 A Q Pharma CO
 Schiff & Co
 Sensitech
 Tunnell Consulting

QUALITY ASSURANCE AUDITS

Arkios BioDevelopment
 Intl
 Biokinetics
 Bruker AXS
 Capaccio Environmental
 Engineering
 Ce3
 Court Square Group
 CSR Pharma Services
 DJA Global
 Pharmaceuticals
 EduQuest
 Gavin Pharmaceutical
 Services
 InfinityQS Intl
 Intrasphere
 Technologies
 IPS-Integrated Project
 Services LLC
 IQVIA
 JAF Consulting
 Konica Minolta Sensing
 Americas
 Lancesoft
 mdiConsultants
 Process Tek
 PTC, NetRegulus Div
 Qpharma,
 A Q Pharma CO
 QUMAS - Dassault
 Systems
 R. Kraft
 RCM Technologies,
 Life Sciences
 Rockwell Automation
 Siemens Process
 Industries + Drives
 Sparta Systems
 SSE Technologies
 The Center for
 Professional
 Innovation & Education
 Tunnell Consulting
 Validation Assocs
 ValiMation
 VTS Consultants

REGULATORY AND PART 11 RISK ASSESSMENT

ABB, Process
 Automation Div
 AECOM
 Applied Control
 Engineering
 Aris Global LLC
 Arkios BioDevelopment
 Intl
 Biokinetics
 Bridge Assocs Intl
 Capaccio Environmental
 Engineering
 Ce3
 CIMINFO Software
 Clarkston Consulting
 Court Square Group
 CSols
 CSR Pharma Services
 EduQuest
 Gavin Pharmaceutical
 Services
 ICONICS
 Intrasphere
 Technologies
 IPS-Integrated Project
 Services LLC
 IQVIA
 JAF Consulting
 Lancesoft
 mdiConsultants
 NNE Pharmaplan
 PCI: Pharmaceutical
 Calibrations And
 Instrumentati
 PharmaSys
 Process Tek

Process XL Consulting
 Group LLC
 PTC, NetRegulus Div
 Qpharma,
 A Q Pharma CO
 QUMAS - Dassault
 Systemes
 RCM Technologies,
 Life Sciences
 Ruland Engineering &
 Consulting GmbH
 Schiff & Co
 Siemens Process
 Industries + Drives
 Surety LLC
 The Center for
 Professional
 Innovation & Education
 UL Pure learning
 Validation Assocs
 ValiMation
 VTS Consultants

SCADA

Automated Control
 Concepts
**Charles Ross &
 Son Co**
 ICONICS
 Rockwell Automation
 Sensaphone
 The Rovisys Co
 Viatran

SECURITY

AccuTime Systems
 Court Square Group
 CustomVault
 JAF Consulting
 NNE Pharmaplan
 RCM Technologies,
 Life Sciences
 Rockwell Automation
 Sensaphone
 Sensitech
 Siemens Process
 Industries + Drives
 Surety LLC
 The Rovisys Co

SENSORS

Applied Control
 Engineering
 Ashcroft
 BinMaster,
 Div Garner Industries
 Chromalox
 Conax Technologies
 Festo Corp
 FSI Technologies
 GE Sensing &
 Inspection
 Technologies
 Kistler Morse
 Krohne
 Mil-Ram Technology
 moitstech
 MTS Sensors
 Neutronics
 NNE Pharmaplan
 Omega Engineering
 Palmer Wahl
 Temperature Products
 Perigon Intl
 Rees Scientific
 Rockwell Automation
 Sensaphone
 Sensitech
 Siemens Process
 Industries + Drives
 Sierra Instruments
 SMI
 Tri-Tronics Co
 WAGO Corp
 Yokogawa Corp
 of America

SERVERS

JAF Consulting

SMART SENSORS

Applied Control
 Engineering
 Chromalox
 DGH Corp
 ETQ
 Festo Corp
 FSI Technologies
 Krohne
 Mil-Ram Technology
 MTS Sensors
 Neutronics
 NNE Pharmaplan
 Perigon Intl
 RCM Technologies,
 Life Sciences
 Sensitech
 Tri-Tronics Co
 WAGO Corp
 Yokogawa Corp
 of America

SOFTWARE

Academy Savant
 Activated Carbon
 Services - PACS
 Applied Control
 Engineering
 Aris Global LLC
 Automated Control
 Concepts
 Blue Mountain
 Quality Resources
 Bruker AXS
 CIMINFO Software
 COMSOL
 Court Square Group
 CSols
 CyberMetrics Corp
 Cytel
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Bionique Testing Labs
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Catalent Pharma Solutions

Celsis, Analytical Services Div
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Eurofins Lancaster Labs
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Frontage Labs
Gibraltar Labs
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KBI BioPharma
Kemwell Biopharma
Mesa Labs
Microbac Labs, Southern Testing & Research Div
Microbiology Research Assocs
National Medical Services, Biopharmaceutical Support Services
Nelson Labs, LLC
Pace Analytical
Del Caribe
PPD
Prevalere Life Sciences LLC, Div
ICON Development Solutions
Product Safety Labs
ProteinLabs
Quantex Labs
Sekisui XenoTech, LLC
SGS, Life Science Services
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ProteinLabs
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SGS, Life Science Services
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Lotus Separations LLC
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Cherokee Pharmaceuticals
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Coating Place
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Product Safety Labs
PYRAMID Labs
Quality Chemical Labs
Quantex Labs
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SGS, Life Science Services

SL Pharma Labs
Solvias AG
Southern Research
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Chiral Technologies
Chromak Research
Cirrus Pharmaceuticals, a Kemwell Co
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 SGS, Life Science Services
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 UL Verification Services
 Velasco Pharmaceutical Services
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 Avista Pharma Solutions
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 Celsis, Analytical Services Div
 Centerchem, Biochemicals & Diagnostics Div
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 Eurofins Lancaster Labs
 Gateway Analytical

Jubilant HollisterStier, Contract Mfg & Services
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 Perritt Labs
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 Cherokee Pharmaceuticals
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 CoreRx
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 Dr Reddy's Labs
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 Halo Pharmaceutical
 Hetero, Custom Pharmaceutical Services
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 Process Solutions
 ProteinLabs
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CUSTOM PEPTIDE SYNTHESIS

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A black and white portrait of Mandy Bosse, a woman with long, wavy hair, wearing a dark blazer over a light-colored collared shirt. She is smiling slightly and looking towards the camera. The background consists of large, light-colored geometric shapes, possibly architectural panels, creating a modern, clean aesthetic.

Mandy Bosse

*VP & GM Cincinnati Regional
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Technology
Michael Benalt
Mycoscience
O.Berk Co, Healthcare
Packaging Group
Perritt Labs
Pfizer CentreOne
Pharma Tech Industries
PharmaDirections
RAUMEDIC
Robert C Vincek Design
Assocs LLC
Rommelay USA
Ropack Pharma
Solutions
SCHOTT North America,
Pharmaceutical
Packaging
Schreiner MediPharm
Sepha Ltd
Sonic Packaging
Industries
TCP Reliable
Tekni-Plex
TricorBraun
Unither Pharmaceuticals
Velesco Pharmaceutical
Services
West Pharmaceutical
Services
Xcellence, Capsugel
Dosage Form Solutions
Zed Industries

PACKAGING ENGINEERING AND DEVELOPMENT

3C Packaging
Ball
Catalent Pharma Solutions
Cold Chain
Technologies
CSR Pharma Services
Douglas Machine
EAG Labs, Life Sciences
Exelead
Gerresheimer AG,
Communication
Gerresheimer Bünde
GmbH
Gerresheimer Peachtree
City (USA) L.P.
Howell Packaging
IPS-Integrated Project
Services LLC
Keller Packaging
Engineering Group LLC
Keystone Folding
Box Co
Lyophilization
Technology
Pharma Tech Industries
PharmaDirections
RAUMEDIC
Ropack Pharma
Solutions
SCHOTT North America,
Pharmaceutical
Packaging
Schreiner MediPharm
Sonic Packaging
Industries

Tekni-Plex
West Pharmaceutical
Services
Xcellence, Capsugel
Dosage Form Solutions
Zed Industries

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Bossar Packaging
Clear Automation
Cozzoli Machine Co
Douglas Machine
EAM
Filamatic, National
Instrument LLC
Gerresheimer AG,
Communication
Keller Packaging
Engineering Group LLC
MagneMotion
MG America
NJM Packaging
NNE Pharmaplan
Palace Packaging
Machines
Perigon Intl
PharmaDirections
Remcon Plastics
Ronl
Schneider Packaging
Equipment
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Pharmaceutical
Packaging
Unither Pharmaceuticals
West Pharmaceutical
Services
Wrapade Packaging
Systems
Zed Industries

PACKAGING SERVICES, OTHER

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ALCAMI
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Ball
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Technologies
Corden Pharma
CSR Pharma Services
Douglas Machine
DSM Pharmaceuticals
Products
Exelead
Facet Technologies LLC
Fisher BioServices
G&W Labs
Gerresheimer AG,
Communication
Howell Packaging
James Alexander Corp
JB Assocs
Kemwell Biopharma
Mycoscience
NNE Pharmaplan
O.Berk Co, Healthcare
Packaging Group
Patheon, Part of Thermo Fisher Scientific
Perritt Labs
Pfizer CentreOne
PharmaDirections
PTI Packaging
Technologies &
Inspection LLC
Reed-Lane
Robert C Vincek Design
Assocs LLC
Ropack Pharma
Solutions

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Sonic Packaging
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Tapemark
TimeCap Labs
Tower Labs Ltd
TricorBraun
Unither Pharmaceuticals
Velesco Pharmaceutical
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Dosage Form Solutions
Zed Industries

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Dr Reddy's Labs
Gerresheimer AG,
Communication
Importfab
James Alexander Corp
NNE Pharmaplan
Perigon Intl
PharmaDirections
PII
Ropack Pharma
Solutions
Sonic Packaging
Industries
Tapemark
Therapex
University of Iowa,
Pharmaceuticals
Velesco Pharmaceutical
Services
Wockhardt Contract
Services
Wrapade Packaging
Systems
Xcellence, Capsugel
Dosage Form Solutions
Zed Industries

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Ball
Catalent Pharma Solutions
Corden Pharma
CSR Pharma Services
DPT Labs
DSM Pharmaceuticals
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CMO
Exelead
Gerresheimer AG,
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Gerresheimer Bünde
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PharmaDirections
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Packaging
Toxikon Corp
University of Iowa,
Pharmaceuticals
West Pharmaceutical
Services
Wockhardt Contract
Services
Xcellence, Capsugel
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Corden Pharma
CSR Pharma Services
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DSM Pharmaceuticals
Products
Exelead
Filamatic, National
Instrument LLC
G&W Labs
Gerresheimer AG,
Communication
Halo Pharmaceutical
Importfab
James Alexander Corp
Lampire Biological Labs

Mikart
Mycoscience
Norwich Pharma
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Packaging
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Therapex
Unither Pharmaceuticals
University of Iowa,
Pharmaceuticals
Velesco Pharmaceutical
Services
West Pharmaceutical
Services
Wockhardt Contract
Services
Wrapade Packaging
Systems
Xcellence, Capsugel
Dosage Form Solutions
Zed Industries

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DPT Labs
Dr Reddy's Labs
Fluid Energy Processing
& Equipment

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Kenike & Johanson
Kemwell Biopharma
Morre-Tec Industries
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Pharma Tech Industries
PharmaDirections
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Ropack Pharma
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Packaging
Sonic Packaging
Industries
Tedor Pharma
Therapex
Tower Labs Ltd
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Services
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DPT Labs
Dr Reddy's Labs
DSM Pharmaceuticals
Products
Future Pak Ltd
Gerresheimer AG,
Communication
Glatt Air Techniques
Glatt Pharmaceutical
Services
Halo Pharmaceutical
International Labs
Kemwell Biopharma
Metrics Contract Services
Mikart
Norwich Pharma
Services
Patheon, Part of Thermo Fisher Scientific
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Reed-Lane
Ropack Pharma
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DPT Labs
DSM Pharmaceuticals
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Exelead
Gateway Analytical

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Technology
Particle Sciences
Patheon, Part of Thermo Fisher Scientific
Pfizer CentreOne
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SL Pharma Labs
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Pharmaceuticals
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Life Sciences
Bridge Assocs Intl
Catalent Pharma Solutions
Chemic Labs
Corden Pharma
DPT Labs
Emergent BioSolutions,
CMO
Evonik Corp,
Health Care
Exelead
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Particle Sciences
Patheon, Part of Thermo Fisher Scientific
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SL Pharma Labs
Unither Pharmaceuticals
University of Iowa,
Pharmaceuticals

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Ajinomoto Althea
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AMRI (Albany Molecular Research)
Avista Pharma Solutions
Bell-More Labs
BIOQUELL,
Life Sciences
BioReliance Corp
Centerchem,
Biochemicals & Diagnostics Div
Corden Pharma
Emergent BioSolutions,
CMO
Evonik Corp,
Health Care

Gateway Analytical
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www.grandriverasepticmfg.com
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Parenteral Drug Assn (PDA)
Particle Sciences
Patheon, Part of Thermo Fisher Scientific
Pfizer CentreOne
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RJ Lee Group
University of Iowa,
Pharmaceuticals
Wockhardt Contract Services

PARTICLE SIZE ENGINEERING

Evonik Corp,
Health Care
Exelead
Gateway Analytical
Particle Sizing Systems
The Jet Pulverizer Co

PARTICLE-SIZE ANALYSIS

Activated Carbon
Services - PACS
ALCAMI
AMRI (Albany Molecular Research)
Avista Pharma
Avista Pharma Solutions
Boston Analytical
Bridge Assocs Intl
Catalent Pharma Solutions
Celsis, Analytical
Services Div

Chemic Labs
Cherokee
Pharmaceuticals
Chilworth Global
Cirrus Pharmaceuticals,
a Kemwell Co
Coating Place
Dr Reddy's Labs
EAG Labs, Life Sciences
ENV Services
Eurofins Lancaster Labs
Exelead
Fluid Energy Processing & Equipment
Fluid Imaging
Technologies
Gateway Analytical
Gibraltar Labs
Glatt Air Techniques
Hosokawa Micron
Powder Systems
Jenike & Johanson
Jubilant HollisterStier,
Contract Mfg & Services
Metrics Contract Services
Micro Measurement Labs
Micromeritics Analytical
Services
Micromeritics
Instrument Corp
Micron Technologies
Microtrac

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NNE Labs, LLC
NNE Pharmaplan
Pace Analytical
Del Caribe
Pace Analytical Life Sciences LLC
Particle Sciences
Patheon, Part of Thermo Fisher Scientific
PharmaDirections
Powdersize
ProCepT
PYRAMID Labs
Quality Chemical Labs
Regis Technologies,
Custom Pharma
RJ Lee Group
SGS, Life Science Services
Shamrock Technologies
SL Pharma Labs
Solvias AG
Sturtevant
Tedor Pharma
UL Verification Services
Whitehouse Labs
Xcelience, Capsugel
Dosage Form Solutions
Xedev

PARTICLE-SIZE CLASSIFICATION

Air Filtration Mgmt
Avista Pharma
Avista Pharma Solutions
Bridge Assocs Intl
Catalent Pharma Solutions
Coating Place
CoreRx
Dr Reddy's Labs
ENV Services
Eurofins Lancaster Labs
Exelead
Fluid Energy Processing & Equipment
Fluid Imaging
Technologies
Gateway Analytical
Jenike & Johanson
Micro Measurement Labs
Micromeritics
Instrument Corp
Micron Technologies
Pace Analytical
Del Caribe
Pace Analytical Life Sciences LLC
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PharmaDirections
Powdersize
Primer Analytical
Solutions Corp,
Analytical and Bioanalytical
PYRAMID Labs
Richman Chemical
RJ Lee Group
Shamrock Technologies
Sturtevant
Tedor Pharma
Xcelience, Capsugel
Dosage Form Solutions

PASSIVATION

Allegheny Surface
Technology
AMF Technologies
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Eagle Stainless
Container
Exelead
Integrated Service
Solutions
MKS Instruments
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PERSONAL PROTECTION EQUIPMENT

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Healthcare Div
BIOQUELL,
Life Sciences
Smithers Avanza
Vetec Assocs

PEST CONTROL

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Smithers Avanza
Pharma-Coeconomics
BioProcess Technology
Consultants
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Ce3
Mapi Group, Strategic
Regulatory Services
Sekisui XenoTech, LLC

PHARMA-COKINETICS

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Catalent Pharma Solutions
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Covance
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EMD Millipore, A Div
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Darmstadt Germany
Frontage Labs
Intrasphere
Technologies
iuvo BioScience
National Medical
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Biopharmaceutical
Support Services
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PharmaDirections
Pion
Prevalere Life
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Product Safety Labs
QPS
Schiff & Co
Sekisui XenoTech, LLC
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SRG Woolf Group
Toxikon Corp
Worldwide Clinical Trials
Drug Development
Solutions
XenoBiotic Labs

PHARMACOLOGY SERVICES

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Covance
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Darmstadt Germany
Frontage Labs
iuvo BioScience
Product Safety Labs
Sekisui XenoTech, LLC
Southern Research
Toxikon Corp
XenoBiotic Labs

PHARMA-COVIGILANCE AND SAFETY

C3I Solutions
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Ce3
CSR Pharma Services
Frontage Labs
Intrasphere
Technologies
PharmaDirections
Pharmalink Consulting
RCM Technologies,
Life Sciences
Sekisui XenoTech, LLC
SGS, Life Science
Services
Smithers Avanza
SRG Woolf Group
Toxikon Corp

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Advanced Synthesis,
Chemical Div
Aenova
Albamarle Corp ALCAMI
Alchem Labs
Alphora Research
Artisan Industries
Avista Pharma
Avista Pharma Solutions
Banner Pharmacaps
BioReliance Corp
BioVectra
Catalent Pharma Solutions
ChemPacific Corp
Chemsultants Intl
Cherokee
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Dr Reddy's Labs
EAG Labs, Life Sciences
Emergent BioSolutions,
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FMC Lithium
G&W Labs
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Johnson Matthey,
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Mikart
NNE Pharmaplan
Norwich Pharma
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OakBark Corp
Ortec

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ProteinLabs
PYRAMID Labs
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Therapex
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Southern Research
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Toxikon Corp
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Xcellence, Capsugel
Dosage Form Solutions
XenoBiotic Labs

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KBI BioPharma
Kemwell Biopharma
Lonza
Microbac Labs,
Southern Testing &
Research Div

Mikart

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Pharmsolv LLC
PII
Pisgah Labs

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Biochemicals &
Diagnostics Div
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ChemPacific Corp
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Gateway Analytical
Gavin Pharmaceutical
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Gibraltar Labs
Glatt Air Techniques
Glatt Pharmaceutical
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Jubilant HollisterStier,
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Kemwell Biopharma
Lonza
Lyophilization
Technology
**Metrics Contract
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Micron Technologies
Mikart
Mycoscience
Nelson Labs, LLC
NNE Pharmaplan
Orion Engineering PLLC
Parenteral Drug
Assn (PDA)
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Fisher Scientific**
Perigon Intl
Pfizer CentreOne
Pharmaceutical
Validation Solutions
PharmaDirections
PharmaSys
pixon engineering AG
Process Tek
Qpharma,
A Q Pharma CO
Quality Chemical Labs
RCM Technologies,
Life Sciences
Regis Technologies,
Custom Pharma
**Robert Bosch Packaging
Technology,
Pharmaceutical
Operations**
Robert C Vincek Design
Assocs LLC
Ropack Pharma
Solutions
Schiff & Co
Sensitech
SL Pharma Labs
Tedor Pharma
Therapex
Tunnell Consulting
UL Verification Services
ValiMation
VTS Consultants
Wockhardt Contract
Services
Xcelience, Capsugel
Dosage Form Solutions

PRODUCT SECURITY
Micro-Tracers
Sensitech

**PROTEIN
EXPRESSION**
Ajinomoto Althea
**Catalent Pharma
Solutions**
Charles River,
Microbial Solutions

EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Glen Mills
Goodwin Biotechnology
KBI BioPharma
Lonza
ProteinLabs
Sekisui XenoTech, LLC
Worthington
Biochemical Corp

**PROTEIN
EXTRACTION,
NATURAL SOURCES**
BioVectra
Centerchem,
Biochemicals &
Diagnostics Div
EAG Labs, Life Sciences
Lampire Biological Labs
ProteinLabs
Worthington
Biochemical Corp

**PROTEIN
PURIFICATION**
Advanced
Biotechnologies
Ajinomoto Althea
**Catalent Pharma
Solutions**
Centerchem,
Biochemicals &
Diagnostics Div
Charles River,
Microbial Solutions
Chemic Labs
Goodwin Biotechnology
KBI BioPharma
Lampire Biological Labs
Lonza
NNE Pharmaplan
Pall Life Sciences,
Biopharmaceuticals
PharmaDirections
ProteinLabs
Worthington
Biochemical Corp

**PROTEIN
SEQUENCING AND
CHARACTERIZATION**
Advanced
Biotechnologies
ALCAMI
**Catalent Pharma
Solutions**
Celsis, Analytical
Services Div
Charles River,
Microbial Solutions
EAG Labs, Life Sciences
Eurofins Lancaster Labs
KBI BioPharma
Lonza
Pace Analytical Life
Sciences LLC
ProteinLabs
SGS, Life Science
Services
Solvias AG

PUMP REBUILDING
MassVac
Notch Mechanical
Constructors

**PUNCH AND DIE
PLATING**
Beamalloy
Technologies LLC
Zed Industries

**QUALITY
ASSURANCE,
QUALITY CONTROL**
Advanced Analytical
Testing Lab
AECOM

Agalocco & Assocs
ALCAMI
Atlas Analytical
Avista Pharma
BioProcess Technology
Consultants
BioVectra
Boston Analytical
**Catalent Pharma
Solutions**
Celsis, Analytical
Services Div

Chemic Labs
ChemPacific Corp
Cirrus Pharmaceuticals,
a Kemwell Co
CMIC CMO USA
Coating Place
Complete Inspection
Systems
Consumer Product
Testing Co
CoreRx
CSols
CSR Pharma Services
Cynrus Technologies
Diverstech Co
Dr Reddy's Labs
EAG Labs, Life Sciences
EduQuest
En'Urga
Eurofins Lancaster Labs
Exelead
Fortitech
Fortress Technology
Gibraltar Labs
Gilbane Building Co,
LifeSciences
Glatt Pharmaceutical
Services
Goodwin Biotechnology
Integrated Service
Solutions
IQVIA
iuvo BioScience
JAF Consulting
Konica Minolta Sensing
Americas
Lonza
LT Industries
Mapi Group, Strategic
Regulatory Services
mdiConsultants
Mecmesin Corp

**Metrics Contract
Services**
Micromeritics Analytical
Services
Mycoscience
Nelson Labs, LLC
NNE Pharmaplan
Pace Analytical Life
Sciences LLC
Parenteral Drug
Assn (PDA)
PAREXEL Consulting
Particle Sciences
**Patheon, Part of Thermo
Fisher Scientific**
Perritt Labs
Pharmaceutical
Validation Solutions
PharmaDirections
Pharmassist
Prevalere Life
Sciences LLC, Div
ICON Development
Solutions
Process Tek
PYRAMID Labs
QualityHub
Quantex Labs
R. Kraft
RCM Technologies,
Life Sciences
Regis Technologies,
Custom Pharma
RJ Lee Group
Schiff & Co
Sensitech
SGS, Life Science
Services

SL Pharma Labs
SRG Woolf Group
Tedor Pharma
The Center for
Professional
Innovation & Education
Tri-Tronics Co
Tunnell Consulting
UL Verification Services
VTS Consultants
Xcelience, Capsugel
Dosage Form Solutions

SL Pharma Labs
SRG Woolf Group
Tedor Pharma
The Center for
Professional
Innovation & Education
Tri-Tronics Co
Tunnell Consulting
UL Verification Services
VTS Consultants
Xcelience, Capsugel
Dosage Form Solutions

R&D SERVICES
AB BioTechnologies
AC Compacting LLC
Activated Carbon
Services - PACS
Advanced Analytical
Testing Lab
Advanced
Biotechnologies
Advanced Synthesis,
Chemical Div
**Albemarle Corp
ALCAMI**
Alchem Labs
AMRI (Albany Molecular
Research)
Arkios BioDevelopment
Intl
Avista Pharma
Avista Pharma Solutions
Banner Pharmacaps
Biolink Life Sciences
Bionique Testing Labs
BioVectra
**Catalent Pharma
Solutions**
Celsis, Analytical
Services Div
Chemic Labs
ChemPacific Corp
Chemsultants Intl
Cherokee
Pharmaceuticals
Chilworth Global
Chiral Quest
Chromak Research
Cirrus Pharmaceuticals,
a Kemwell Co
CMIC CMO USA
Coating Place
Corealis Pharma
CoreRx
CSR Pharma Services
Cynrus Technologies
Diamondback
Technology
Diverstech Co
Dr Geoffrey P
Jacobs Assocs
Dr Reddy's Labs
DSM Pharmaceuticals
Products
EAG Labs, Life Sciences
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Emerson Resources
En'Urga
ENV Services
Facet Technologies LLC
Fortitech
Gerresheimer Peachtree
City (USA) L.P.
Glatt Air Techniques
Glatt Pharmaceutical
Services
Integrated Service
Solutions
IPS-Integrated Project
Services LLC
iuvo BioScience
JAF Consulting
Lampire Biological Labs
Libra Technical
Center LLC
Lonza
LTS Lohmann
Therapy Systems

Lyophilization
Technology
Mapi Group, Strategic
Regulatory Services
Microbac Labs,
Southern Testing &
Research Div
Mikart
Mycoscience
NNE Pharmaplan
Norwich Pharma
Services
Numare Spectralab,
NMR Analytical Lab
Pace Analytical Life
Sciences LLC
PAREXEL Consulting
Particle Sciences
PharmaDirections
Pharmassist
PII
Prevalere Life
Sciences LLC, Div
ICON Development
Solutions
Primera Analytical
Solutions Corp,
Analytical and
Bioanalytical
ProCePT
Process Tek
Product Safety Labs
ProteinLabs
PYRAMID Labs
Quality Chemical Labs
Quantex Labs
Regis Technologies,
Custom Pharma
Richman Chemical
RJ Lee Group
Robert C Vincek Design
Assocs LLC
Ropack Pharma
Solutions
Sancilio & Co
Sekisui XenoTech, LLC
SGS, Life Science
Services
SL Pharma Labs
SMI
Solvias AG
Southern Research
SRG Woolf Group
Tedor Pharma
TGA BioSciences
The Center for
Professional
Innovation & Education
The Helios Group
Tower Labs Ltd
Tunnell Consulting
Velesco Pharmaceutical
Services
Wockhardt Contract
Services
Xcelience, Capsugel
Dosage Form Solutions
XedeV
XenoBiotic Labs

Lyophilization
Technology
Mapi Group, Strategic
Regulatory Services
Microbac Labs,
Southern Testing &
Research Div
Mikart
Mycoscience
NNE Pharmaplan
Norwich Pharma
Services
Numare Spectralab,
NMR Analytical Lab
Pace Analytical Life
Sciences LLC
PAREXEL Consulting
Particle Sciences
PharmaDirections
Pharmassist
PII
Prevalere Life
Sciences LLC, Div
ICON Development
Solutions
Primera Analytical
Solutions Corp,
Analytical and
Bioanalytical
ProCePT
Process Tek
Product Safety Labs
ProteinLabs
PYRAMID Labs
Quality Chemical Labs
Quantex Labs
Regis Technologies,
Custom Pharma
Richman Chemical
RJ Lee Group
Robert C Vincek Design
Assocs LLC
Ropack Pharma
Solutions
Sancilio & Co
Sekisui XenoTech, LLC
SGS, Life Science
Services
SL Pharma Labs
SMI
Solvias AG
Southern Research
SRG Woolf Group
Tedor Pharma
TGA BioSciences
The Center for
Professional
Innovation & Education
The Helios Group
Tower Labs Ltd
Tunnell Consulting
Velesco Pharmaceutical
Services
Wockhardt Contract
Services
Xcelience, Capsugel
Dosage Form Solutions
XedeV
XenoBiotic Labs

**RADIO-
PHARMACEUTICALS**
Agalocco & Assocs
Avista Pharma
Chemic Labs
EAG Labs, Life Sciences
Quality Chemical Labs
Sekisui XenoTech, LLC
XenoBiotic Labs

**RAPID MICROBIAL
ANALYSIS**
Advanced Analytical
Testing Lab
AMRI (Albany Molecular
Research)
Atlas Analytical
Avista Pharma
Bionique Testing Labs
Bruker, Daltonics

Celsis, Analytical
Services Div
Charles River,
Microbial Solutions
Consumer Product
Testing Co
Eurofins Lancaster Labs
Exelead
Gibraltar Labs
Lonza
Microbiological
Environments

**RAW MATERIAL
ANALYSIS**
Advanced Analytical
Testing Lab
Advanced Synthesis,
Chemical Div
ALCAMI
Atlas Analytical
Avista Pharma
Bionique Testing Labs
BioReliance Corp
BioSpectra
**Catalent Pharma
Solutions**
Celsis, Analytical
Services Div
Chemic Labs
Cherokee
Pharmaceuticals
Chromak Research
CMIC CMO USA
Coating Place
Consumer Product
Testing Co
CoreRx
Covance
Diamondback
Technology
Dr Reddy's Labs
EAG Labs, Life Sciences
Eurofins Lancaster Labs
Exelead
Gateway Analytical
Gibraltar Labs
Glatt Air Techniques
Glatt Pharmaceutical
Services
International Mfg Assn,
Finance
iuvo BioScience
Jubilant HollisterStier,
Contract Mfg &
Services
Libra Technical
Center LLC
Lonza
LT Industries
**Metrics Contract
Services**
Microbac Labs,
Southern Testing &
Research Div
Microbiology Research
Assocs
Pace Analytical
Del Caribe
Pace Analytical Life
Sciences LLC
Pharma Tech Industries
PharmaDirections
Pharmassist
PPD
Prevalere Life
Sciences LLC, Div
ICON Development
Solutions
Primera Analytical
Solutions Corp,
Analytical and
Bioanalytical
Product Safety Labs
PYRAMID Labs
Quality Chemical Labs
Quantex Labs
RJ Lee Group
Sancilio & Co
SGS, Life Science
Services
SL Pharma Labs

**RAW MATERIAL
ANALYSIS**
Advanced Analytical
Testing Lab
Advanced Synthesis,
Chemical Div
ALCAMI
Atlas Analytical
Avista Pharma
Bionique Testing Labs
BioReliance Corp
BioSpectra
**Catalent Pharma
Solutions**
Celsis, Analytical
Services Div
Chemic Labs
Cherokee
Pharmaceuticals
Chromak Research
CMIC CMO USA
Coating Place
Consumer Product
Testing Co
CoreRx
Covance
Diamondback
Technology
Dr Reddy's Labs
EAG Labs, Life Sciences
Eurofins Lancaster Labs
Exelead
Gateway Analytical
Gibraltar Labs
Glatt Air Techniques
Glatt Pharmaceutical
Services
International Mfg Assn,
Finance
iuvo BioScience
Jubilant HollisterStier,
Contract Mfg &
Services
Libra Technical
Center LLC
Lonza
LT Industries
**Metrics Contract
Services**
Microbac Labs,
Southern Testing &
Research Div
Microbiology Research
Assocs
Pace Analytical
Del Caribe
Pace Analytical Life
Sciences LLC
Pharma Tech Industries
PharmaDirections
Pharmassist
PPD
Prevalere Life
Sciences LLC, Div
ICON Development
Solutions
Primera Analytical
Solutions Corp,
Analytical and
Bioanalytical
Product Safety Labs
PYRAMID Labs
Quality Chemical Labs
Quantex Labs
RJ Lee Group
Sancilio & Co
SGS, Life Science
Services
SL Pharma Labs

UL Verification Services
University of Iowa,
Pharmaceuticals
Whitehouse Labs
Wockhardt Contract
Services

**RECOMBINANT
PEPTIDE AND
PROTEIN
MANUFACTURING**

Advanced
Biotechnologies
Ajinomoto Althea
BioProcess Technology
Consultants
DJS Enterprises
KBI BioPharma
Lonza
Patheon, Part of Thermo
Fisher Scientific
PharmaDirections
ProteinLabs
Sekisui XenoTech, LLC
Worthington
Biochemical Corp

**REGULATORY
AFFAIRS
CONSULTANTS**

AECOM
Agaloco & Assocs
Arkios BioDevelopment
Intl
Avista Pharma
AvivoClin Clinical
Services
Biolink Life Sciences
BioProcess Technology
Consultants
BioReliance Corp
Capaccio Environmental
Engineering
Chemic Labs
Chromak Research
CLIMINFO Software
CSR Pharma Services
Diverstech Co
DJA Global
Pharmaceuticals
Dr Reddy's Labs
EAG Labs, Life Sciences
EduQuest
Exelead
Frontage Labs
Intrasphere
Technologies
IQVIA
iuvo BioScience
Mapi Group, Strategic
Regulatory Services
Mycoscience
Parenteral Drug
Assn (PDA)
PAREXEL Consulting
Parsons
Pharmaceutical
Validation Solutions
PharmaDirections
Pharmalink Consulting
PharmaSys
Product Safety Labs
Qpharma,
A Q Pharma CO
QualityHub
RCM Technologies,
Life Sciences
Schiff & Co
Sekisui XenoTech, LLC
Seraphim Life Sciences
Consulting LLC
SGS, Life Science
Services
Smithers Viscient
SRG Woolf Group
The Center for
Professional
Innovation & Education
Tunnell Consulting

UL Verification Services
VTS Consultants
West Pharmaceutical
Services

**REGULATORY
SUBMISSION
SERVICES**

AECOM
Agaloco & Assocs
ALCAMI
Arkios BioDevelopment
Intl
bioRASI LLC
Capaccio Environmental
Engineering
Ce3
Cherokee
Pharmaceuticals
CMIC CMO USA
Coating Place
CSR Pharma Services
DJA Global
Pharmaceuticals
EduQuest
Emergent BioSolutions,
CMO
Exelead
Intrasphere
Technologies
iuvo BioScience
Jubilant HollisterStier,
Contract Mfg &
Services
Mapi Group, Strategic
Regulatory Services
mdiConsultants
Mikart
Norwich Pharma
Services
PharmaDirections
Pharmalink Consulting
Schiff & Co
Sekisui XenoTech, LLC
SL Pharma Labs
Smithers Viscient
Tedor Pharma
Tunnell Consulting
West Pharmaceutical
Services

ROBOTICS, CUSTOM

Artel
Aspect Automation
Caliper Life Sciences
Clear Automation
JAF Consulting
Prior Scientific
Spiroflow Systems
Stäubli, Robotics

**SANITARY VALVE
SERVICES**

AMF Technologies
Chem Flowtronics
Jayco
Process Tek

SHIPPING SERVICES

Catalent Pharma
Solutions
iuvo BioScience
MARKEN
Xcelience, Capsugel
Dosage Form Solutions

SLITTING

Chemultants Intl
G-M-I
LTS Lohmann
Therapy Systems
Mylan Technologies

**SMALL-VOLUME
PARENTERALS**

AB BioTechnologies
Aenovra
Agaloco & Assocs
Avista Pharma

Avista Pharma Solutions
BioReliance Corp
Catalent Pharma
Solutions
Chemic Labs
Corden Pharma
DPT Labs
Dr Geoffrey P
Jacobs Assocs
Evonik Corp,
Health Care
Exelead
Grand River
Aseptic Mfg
Jubilant HollisterStier,
Contract Mfg &
Services
KBI BioPharma
Kemwell Biopharma
Lonza
Particle Sciences
Particle Sizing Systems
Patheon, Part of Thermo
Fisher Scientific
Pfizer CentreOne
PharmaDirections
PII
PYRAMID Labs
SL Pharma Labs
University of Iowa,
Pharmaceuticals
Wockhardt Contract
Services

**SPECTROSCOPY
SERVICES**

Activated Carbon
Services - PACS
Advanced Synthesis,
Chemical Div
Avista Pharma
Bruker, Daltonics
Catalent Pharma
Solutions
Ce3
Celsis, Analytical
Services Div
Centerchem,
Biochemicals &
Diagnostics Div
Charles River,
Microbial Solutions
Chemic Labs
Cherokee
Pharmaceuticals
Cirrus Pharmaceuticals,
a Kemwell Co
Covance
EAG Labs, Life Sciences
Eurofins Lancaster Labs
Exelead
Gateway Analytical
iuvo BioScience
Libra Technical Center LLC
LT Industries
Microbac Labs,
Southern Testing &
Research Div
Nelson Labs, LLC
Numare Spectralab,
NMR Analytical Lab
Optometrics Corp
Pace Analytical Life
Sciences LLC
Particle Sciences
Pharmassist
PYRAMID Labs
Quality Chemical Labs
Quantex Labs
RJ Lee Group
Sancilio & Co
Sekisui XenoTech, LLC
Solvias AG

**SPRAY
CHARACTERIZATION
SERVICES**

Cirrus Pharmaceuticals,
a Kemwell Co
Patheon, Part of Thermo
Fisher Scientific
Ropack Pharma Solutions

SPRAY TESTING
Cirrus Pharmaceuticals,
a Kemwell Co

**SPRAY-DRYING
ALCAMI**

AMRI (Albany Molecular
Research)
BioSpectra
Catalent Pharma
Solutions
Cirrus Pharmaceuticals,
a Kemwell Co
Evonik Corp,
Health Care
Fuji Chemical Industries
USA
International Specialty
Products
Lonza
Metrics Contract
Services
Mikart
Particle Sciences
Patheon, Part of Thermo
Fisher Scientific
ProCepT
Richman Chemical
Wockhardt Contract
Services
Xcelience, Capsugel
Dosage Form Solutions
Xedev

STABILITY STUDIES

AB BioTechnologies
Advanced Analytical
Testing Lab
ALCAMI
Alphora Research
AMRI (Albany Molecular
Research)
Avista Pharma
Avista Pharma Solutions
BioReliance Corp
BioSpectra
Boston Analytical
Catalent Pharma
Solutions
Celsis, Analytical
Services Div
Centerchem,
Biochemicals &
Diagnostics Div
Charles River,
Microbial Solutions
Chemic Labs
ChemPacific Corp
Cherokee
Pharmaceuticals
Chilworth Global
Chromak Research
Cirrus Pharmaceuticals,
a Kemwell Co
CMIC CMO USA
Coating Place
Consumer Product
Testing Co
Corden Pharma
CoreRx
Covance
Cygnus Technologies
Dr Reddy's Labs
EAG Labs, Life Sciences
Eurofins Lancaster Labs
Exelead
Frontage Labs
Gateway Analytical
Gibraltar Labs
Glatt Air Techniques
Glatt Pharmaceutical
Services
Goodwin Biotechnology
Integrated Service
Solutions
Intertek USA, dba QTI
iuvo BioScience
KBI BioPharma
Kemwell Biopharma
Libra Technical
Center LLC

Lonza
Metrics Contract
Services
Microbac Labs,
Southern Testing &
Research Div
Microbiological
Environments
Micron Technologies
Mikart
Nelson Labs, LLC
Norwich Pharma
Services
Pace Analytical
Del Caribe
Pace Analytical Life
Sciences LLC
Parameter Generation &
Control
Particle Sciences
Patheon, Part of Thermo
Fisher Scientific
PharmaDirections
Pharmassist
PII
Pion
PPD
Primer Analytical
Solutions Corp,
Analytical and
Bioanalytical
Product Safety Labs
ProteinLabs
PYRAMID Labs
Quality Chemical Labs
Quantex Labs
RCM Technologies,
Life Sciences
Regis Technologies,
Custom Pharma
Sekisui XenoTech, LLC
Sepha Ltd
SGS, Life Science
Services
SL Pharma Labs
Solvias AG
Source BioScience
Tedor Pharma
TGA BioSciences
The Center for
Professional
Innovation & Education
Therapex
Toxikon Corp
UL Verification Services
University of Iowa,
Pharmaceuticals
Vindonwestech
West Pharmaceutical
Services
Whitehouse Labs
Wockhardt Contract
Services
Xcelience, Capsugel
Dosage Form Solutions

**STAINLESS STEEL
POLISHING**

Allegheny Surface
Technology
Beamalloy
Technologies LLC
Bergen Industrial
Supply Co
Mendel Co
Process Solutions

**STATISTICAL
CONSULTING**

Exelead
IPS-Integrated Project
Services LLC
iuvo BioScience

STERILE FILLING

AB BioTechnologies
Aenovra
Ajinomoto Althea
ALCAMI
AMRI (Albany Molecular
Research)

Avista Pharma
Avista Pharma Solutions
AWS Bio-Pharma
Technologies
BioReliance Corp
Catalent Pharma
Solutions
Chemic Labs
Corden Pharma
DPT Labs
DSM Pharmaceuticals
Products
Emergent BioSolutions,
CMO
Evonik Corp,
Health Care
Exelead
Goodwin Biotechnology
616-678-2400
bd@grandriverasepticmfg.com
www.grandriverasepticmfg.com

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Hetero, Custom
Pharmaceutical
Services
IPS-Integrated Project
Services LLC
Jubilant HollisterStier,
Contract Mfg &
Services
KBI BioPharma
Kemwell Biopharma
Lyophilization
Technology
Mycoscience
Parenteral Drug
Assn (PDA)
Patheon, Part of Thermo
Fisher Scientific
Pfizer CentreOne
PharmaDirections
PII
PYRAMID Labs
SL Pharma Labs
Unither
Pharmaceuticals
University of Iowa,
Pharmaceuticals
Wockhardt Contract
Services

STERILITY TESTING

AB BioTechnologies
Advanced
Biotechnologies
Ajinomoto Althea
ALCAMI
Alpha Analytical Labs
Atlas Analytical
Avista Pharma
Avista Pharma Solutions
Bionique Testing Labs
BioReliance Corp
Boston Analytical
Catalent Pharma
Solutions
Celsis, Analytical
Services Div
Charles River,
Microbial Solutions
Consumer Product
Testing Co
Covance
Dr Reddy's Labs
Eurofins Lancaster Labs
Exelead
Gibraltar Labs
iuvo BioScience
Lonza
Mesa Labs
Microbiological
Environments
Microbiology Research
Assocs
Mycoscience
Nelson Labs, LLC
NNE Pharmaplan
Pace Analytical
Del Caribe

For vendor contact information, see Company Directory section.

Pace Analytical Life Sciences LLC
 Pall Life Sciences, Biopharmaceuticals
 Parenteral Drug Assn (PDA)
Patheon, Part of Thermo Fisher Scientific
 PharmaDirections
 Quality Chemical Labs
 SGS, Life Science Services
 SL Pharma Labs
 Solvias AG
 Toxikon Corp
 UL Verification Services
 Whitehouse Labs

STERILIZATION SERVICES

Advanced Scientific
 Agaloco & Assocs
 Ajinomoto Althea
 Belimed, Scientific Div
 Carltex

Catalent Pharma Solutions

Clordisys Solutions
Corden Pharma
 Dr Geoffrey P
 Jacobs Assocs
 E-BEAM Services
 ETC, Sterilization Systems
 Gibraltar Labs
 iuvo BioScience
 Lubrizol LifeSciences
 Microbiology Research Assocs
 Mycoscience
 Nelson Labs, LLC
 Pall Life Sciences, Biopharmaceuticals
 Parenteral Drug Assn (PDA)
 PPD

Prince Sterilization Services

Rockwell Automation
 SL Pharma Labs
 Toxikon Corp
 Wheaton Industries, Wheaton Science Packaging

STORAGE SERVICES

BioReliance Corp
Catalent Pharma Solutions
 Ce3
 Celsis, Analytical Services Div
Chemic Labs
 Cherokee Pharmaceuticals
 Chromak Research
 Cincinnati Sub-Zero
 EAG Labs, Life Sciences
 Eurofins Lancaster Labs
 Fisher BioServices
 Frontage Labs
 iuvo BioScience
 Kemwell Biopharma
 MARKEN
 Pace Analytical Life Sciences LLC
 Pharmassist
 Powdersize
 Prevalere Life Sciences LLC, Div
 ICON Development Solutions
 Quality Chemical Labs
 Regis Technologies, Custom Pharma
 SGS, Life Science Services
 SL Pharma Labs
 Source BioScience

TGA BloSciences
 TRS Containers
 Vindonwestech
 Xcellence, Capsugel
 Dosage Form Solutions

STRAIN IMPROVEMENT

DSM Pharmaceuticals
 Products
 Evonik Corp, Health Care
Lonza

SUPPORT SERVICES, CUSTOM

Advanced Biotechnologies
 AMRI (Albany Molecular Research)
 Biolink Life Sciences
Catalent Pharma Solutions
 CIMINFO Software
 Consumer Product Testing Co
 Dr Reddy's Labs
 EAG Labs, Life Sciences
 ICT Group
 Integrated Service Solutions
 Lampire Biological Labs
 Lubrizol LifeSciences
 Mapi Group, Strategic Regulatory Services
 NNE Pharmaplan
 Pace Analytical Life Sciences LLC
 The Helios Group
 Toxikon Corp
 VTS Consultants
 VWR Intl LLC

SURFACE-AREA ANALYSIS

Activated Carbon Services - PACS
 Avista Pharma
 Biotest Diagnostics Corp
Chemic Labs
 CoreRx
 Dr Reddy's Labs
 EAG Labs, Life Sciences
 Hiden Analytical
 Micromeritics Analytical Services
 Micromeritics Instrument Corp
 Micron Technologies
 Particle Sciences
 Quantachrome Instruments
 RJ Lee Group

SUSTAINED-RELEASE DELIVERY SYSTEMS

Aenova
 Avena Drug Delivery Systems
Catalent Pharma Solutions
 Celsis, Analytical Services Div
 CMIC CMO USA
Coating Place
 CoreRx
 Custom Coatings
 Evonik Corp, Health Care
 Glatt Air Techniques
 Glatt Pharmaceutical Services
 Lubrizol LifeSciences
Metrics Contract Services
 Mikart

Mylan Technologies
 Particle Sciences
Patheon, Part of Thermo Fisher Scientific
 Pharma Tech Industries
 Pharmsolv LLC
 RJ Lee Group
 Ropack Pharma Solutions
 Sancilio & Co
 SL Pharma Labs
 Tapemark
 Tedor Pharma
 TimeCap Labs
 Wockhardt Contract Services

SYNTHESIS, DNA

DJS Enterprises
Lonza

SYNTHESIS, PEPTIDE

Advanced Synthesis, Chemical Div
 BioVectra
Catalent Pharma Solutions
 Centerchem, Biochemicals & Diagnostics Div
Corden Pharma
 DJS Enterprises
 Dr Reddy's Labs
 Evonik Corp, Health Care
 Lampire Biological Labs
Lonza
 PharmaDirections
 Richman Chemical

SYRINGE FILLING

AB BioTechnologies

AbbVie, Contract Mfg
 874-938-8524
 abbviecontractmfg@abbvie.com
 www.abbvie.com

See ad on page 105

 AMRI (Albany Molecular Research)

Avista Pharma
Catalent Pharma Solutions
Corden Pharma
Grand River Aseptic Mfg
 IVEK Corp
 Kemwell Biopharma
 Lyophilization Technology
 Michael Benalt
 Mycoscience
 NNE Pharmaplan
Patheon, Part of Thermo Fisher Scientific
 Pfizer CentreOne
 PharmaDirections
 PII
PYRAMID Labs
 SL Pharma Labs
 Sonic Packaging Industries
 Wockhardt Contract Services

TABLET COATING

.....
AbbVie, Contract Mfg
 874-938-8524
 abbviecontractmfg@abbvie.com
 www.abbvie.com
 See ad on page 105

 Aenova
ALCAMI
 Avista Pharma Solutions
Catalent Pharma Solutions
 CMIC CMO USA

Coating Place
Corden Pharma
 CoreRx
 Custom Coatings
 DPT Labs
 Dr Reddy's Labs
 EAG Labs, Life Sciences
 Emerson Resources
 Evonik Corp, Health Care
 Glatt Air Techniques
 Glatt Pharmaceutical Services
 Halo Pharmaceutical
 Kemwell Biopharma
Metrics Contract Services
 Michael Benalt
Mikart
 NNE Pharmaplan
 Norwich Pharma Services
Patheon, Part of Thermo Fisher Scientific
 Pfizer CentreOne
 Pharma Tech Industries
 PharmaDirections
 Pharmsolv LLC
 PII
 Ropack Pharma Solutions
 Tedor Pharma
 TimeCap Labs
 University of Iowa, Pharmaceuticals
 Wockhardt Contract Services
 Xcellence, Capsugel
 Dosage Form Solutions
 Xedev

TABLET PRESS REBUILDING

AC Compacting LLC
 DPT Labs
Fette Compacting America
 HealthStar
 Mendel Co
 Michael Benalt
 NNE Pharmaplan
 Wilson Tool Intl

TECHNOLOGY TRANSFER

Advanced Synthesis, Chemical Div
 Aenova
 Agaloco & Assocs
 AMRI (Albany Molecular Research)
 Biolink Life Sciences
 BioProcess Technology Consultants
 Capaccio Environmental Engineering
Catalent Pharma Solutions
 Celsis, Analytical Services Div
 Chiral Quest
 Cirrus Pharmaceuticals, a Kemwell Co
CMIC CMO USA
Coating Place
Corden Pharma
 Corealis Pharma
 CoreRx
 DPT Labs
 Dr Reddy's Labs
 DSM Pharmaceuticals Products
 Emergent BioSolutions, CMO
 Gibraltar Labs
 Glatt Air Techniques
 Glatt Pharmaceutical Services
 KBI BioPharma
 Kemwell Biopharma

Lonza
Metrics Contract Services
 Microbac Labs,
 Southern Testing & Research Div
 NNE Pharmaplan
 Norwich Pharma Services

Patheon, Part of Thermo Fisher Scientific

Pfizer CentreOne
 Pharma Tech Industries
 PharmaDirections
 Ropack Pharma Solutions
 SciENZA Labs
 SL Pharma Labs
 Tedor Pharma
 Therapex
 Tunnell Consulting
 Wockhardt Contract Services
 Xcellence, Capsugel
 Dosage Form Solutions
 Xedev

THERMO-GRAVIMETRIC ANALYSIS

Activated Carbon Services - PACS
ALCAMI
Catalent Pharma Solutions
 Celsis, Analytical Services Div
Chemic Labs
 Cherokee Pharmaceuticals
 Eurofins Lancaster Labs
 Hiden Analytical
 iuvo BioScience
 Particle Sciences
 Prevalere Life Sciences LLC, Div
 ICON Development Solutions
 Product Safety Labs
 Regis Technologies, Custom Pharma
 Sekisui XenoTech, LLC
 Smithers Viscient
 Solvias AG
 Southern Research
 TGA BioSciences
 Toxikon Corp

THERMOPLASTIC EXTRUSION

Flex Products
 Mylan Technologies
 Particle Sciences
 RAUMEDIC
 Reiss Mfg, Ronsil Rubber & Kentron Plastics Div
 Tedor Pharma

THERMOPLASTIC MOLDING

Flex Products
 G-M-I
 Integrated Containment Systems
 Particle Sciences
 Pharma Tech Industries
 Pharmsolv LLC
 RAUMEDIC
 SEBRA, Biopharm & Cellular Therapy
 Zed Industries

TORQUE TESTING

AC Compacting LLC
 Chromak Research
 Integrated Service Solutions
 Mecmesin Corp

Mesa Labs
 Perritt Labs
 Product Safety Labs
 Reiss Mfg, Ronsil Rubber & Kentron Plastics Div
 SMI
 Whitehouse Labs

TOXICOLOGY SERVICES AND ANALYSIS

AB BioTechnologies
 AMRI (Albany Molecular Research)
 APREDICA
 Avista Pharma
 BioReliance Corp
 Celsis, Analytical Services Div
 Charles River, Microbial Solutions
 Covance
 EAG Labs, Life Sciences
 Frontage Labs
 iuvo BioScience
 Lampire Biological Labs
 Lyophilization Technology
 Nelson Labs, LLC
 Pace Analytical
 Del Caribe
 PharmaDirections
 Prevalere Life Sciences LLC, Div
 ICON Development Solutions
 Product Safety Labs
 Regis Technologies, Custom Pharma
 Sekisui XenoTech, LLC
 Smithers Viscient
 Solvias AG
 Southern Research
 TGA BioSciences
 Toxikon Corp

TRACE METAL ANALYSIS, AA

Activated Carbon Services - PACS
ALCAMI
 BioSpectra
Catalent Pharma Solutions
 Celsis, Analytical Services Div
Chemic Labs
 Cherokee Pharmaceuticals
 Consumer Product Testing Co
 EAG Labs, Life Sciences
 Eurofins Lancaster Labs
 Gibraltar Labs
 Intertek USA, dba QTI

Metrics Contract Services

Microbac Labs,
 Southern Testing & Research Div
 National Medical Services,
 Biopharmaceutical Support Services
 Pace Analytical
 Del Caribe
 Pace Analytical Life Sciences LLC
 PPD
 Product Safety Labs
 Quality Chemical Labs
 Quantex Labs
 RJ Lee Group
 Sabin Metal Corp
 SGS, Life Science Services
 Solvias AG
 UL Verification Services

TRACE METAL ANALYSIS, ICP

Activated Carbon Services - PACS
Albemarle Corp
ALCAMI
 Avista Pharma Solutions
Catalent Pharma Solutions

Cherokee Pharmaceuticals
 Dr Reddy's Labs
 EAG Labs, Life Sciences
 Eurofins Lancaster Labs
 Intertek USA, dba QTI
 Jubilant HollisterStier, Contract Mfg & Services
 Libra Technical Center LLC

Metrics Contract Services

Microbac Labs, Southern Testing & Research Div
 National Medical Services, Biopharmaceutical Support Services
 Pace Analytical Life Sciences LLC
 Primera Analytical Solutions Corp, Analytical and Bioanalytical
 Quality Chemical Labs
 Quantex Labs
 RJ Lee Group
 Sabin Metal Corp
 SGS, Life Science Services
 Solvias AG
 Toxikon Corp
 UL Verification Services
 Whitehouse Labs

TRAINING

AB BioTechnologies
 Academy Savant
 Activated Carbon Services - PACS
 Agalocco & Assocs
 Applied Control Engineering
 ATS RheoSystems, Cannon Instrument Co
 Avista Pharma
 Biolink Life Sciences
 Bossar Packaging
 Capaccio Environmental Engineering
 Chilworth Global
 Chromak Research
 Cleanroom Mgmt Assocs
 Complete Inspection Systems
 CSR Pharma Services
 Dr Geoffrey P Jacobs Assocs
 EduQuest
 Emerson Resources
Fette Compacting America
 Gavin Pharmaceutical Services
 Glatt Pharmaceutical Services
 Honeyman Group Ltd
 Institute Of Environmental Sciences Technology
 Integrated Service Solutions
 ISA
 ISPE
 JAF Consulting
 JB Assocs

Keller Packaging
 Engineering Group LLC
 LearningPlus
 Lyophilization Technology
 mdiConsultants
 Mettler-Toledo
 Hi-Speed, Product Inspection
 Mettler-Toledo Safeline, Product Inspection
 Micron Video Intl
 Mycoscience
 Paratherm
 Parenteral Drug Assn (PDA)
 PAREXEL Consulting
 Parsons
 PDR-Separations
 PharmaSys
 Qpharma, A Q Pharma CO
 QualityHub
 Quantex Labs
 R. Kraft
 RCM Technologies, Life Sciences
 Research Dynamics
 Consulting Group Ltd
 Restek Corp
 Sartorius Stedim North America
 Schiff & Co
 Scienza Labs
 Siemens Process Industries + Drives
 Spirax Sarco
 SRG Woolf Group
 Stäubli, Robotics
 The Center for Professional Innovation & Education
 US Pharmacopeia (USP)
 Validation Assocs
Veltex Assocs
 VTS Consultants
 Xedev

TRAINING VIDEOS

AB BioTechnologies
 Academy Savant
 CSR Pharma Services
 ISA
 ISPE
 JAF Consulting
 LearningPlus
 Micron Video Intl
 Parenteral Drug Assn (PDA)
 The Center for Professional Innovation & Education

TRAINING, CGMP/HPB/FDA COMPLIANCE

Advanced Analytical Testing Lab
 Agalocco & Assocs
 Avista Pharma
 Biokinetics
 Biolink Life Sciences
 BioProcess Technology Consultants
Catalent Pharma Solutions
 Ce3
 Chromak Research
 Cleanroom Mgmt Assocs
 CSR Pharma Services
 Diverstech Co
 EduQuest
 Honeyman Group Ltd
 IPS-Integrated Project Services LLC
 IQVIA
 ISA
 ISPE
 JAF Consulting
 NNE Pharmaplan
 Parenteral Drug Assn (PDA)
 Perigon Intl
 Pharmaceutical Validation Solutions
 pixon engineering AG
 Qpharma, A Q Pharma CO
 QualityHub
 Schiff & Co
 Scienza Labs
 The Center for Professional Innovation & Education

LearningPlus
 Micron Video Intl
 Mycoscience
 NNE Pharmaplan
 Parenteral Drug Assn (PDA)
 PAREXEL Consulting
 Perigon Intl
 Pharmaceutical Validation Solutions
 PharmaSys
 Process Tek
 Qpharma, A Q Pharma CO
 Quantex Labs
 RCM Technologies, Life Sciences
 Schiff & Co
 Scienza Labs
 The Center for Professional Innovation & Education
 UL Verification Services
 Validation Assocs
 VTS Consultants

TRAINING, OCCUPATIONAL SAFETY AND HEALTH

Academy Savant
 C3i Solutions
 Capaccio Environmental Engineering
 CSR Pharma Services
 Exelead
 Institute Of Environmental Sciences Technology
 IPS-Integrated Project Services LLC
 ISPE
 PharmaSys
 RCM Technologies, Life Sciences
 The Center for Professional Innovation & Education

TRAINING, PROCESS VALIDATION

Activated Carbon Services - PACS
 AECOM
 Agalocco & Assocs
 AGR Intl
 Biokinetics
 Biolink Life Sciences
 BioProcess Technology Consultants
Catalent Pharma Solutions
 CSR Pharma Services
 Diverstech Co
 EduQuest
 Glatt Pharmaceutical Services
 Honeyman Group Ltd
 Hosokawa Micron Powder Systems
 IPS-Integrated Project Services LLC
 IQVIA
 ISA
 ISPE
 JAF Consulting
 NNE Pharmaplan
 Parenteral Drug Assn (PDA)
 Perigon Intl
 Pharmaceutical Validation Solutions
 pixon engineering AG
 Qpharma, A Q Pharma CO
 QualityHub
 Schiff & Co
 Scienza Labs
 The Center for Professional Innovation & Education

Tunnell Consulting
 UL Verification Services
 VTS Consultants

UV-VIS SPECTROPHOTOMETER ANALYSIS

AB BioTechnologies
 Advanced Synthesis, Chemical Div

ALCAMI

Avista Pharma
 Avista Pharma Solutions
 Biolink Life Sciences
 Bioscience
 BioSpectra
 Boston Analytical
Catalent Pharma Solutions

Celsis, Analytical Services Div

Chemic Labs
 Cherokee Pharmaceuticals
 Chromak Research
 Cirrus Pharmaceuticals, a Kemwell Co
 CMIC CMO USA

Coating Place

Covance
 EAG Labs, Life Sciences
 En'Urga
 Eurofins Lancaster Labs
 Exelead
 Gibraltar Labs

Glatt Pharmaceutical Services
 Integrated Service Solutions
 iuvo BioScience
 KBI BioPharma
 Kemwell Biopharma
 Konica Minolta Sensing Americas

Libra Technical Center LLC
Metrics Contract Services

Microbac Labs, Southern Testing & Research Div
 Microbiological Environments
 NNE Pharmaplan
 Optometrics Corp
 Pace Analytical
 Del Caribe
 Pace Analytical Life Sciences LLC
 Particle Sciences
 Pharmassist
 Prevalere Life Sciences LLC, Div
 ICON Development Solutions

Primera Analytical Solutions Corp, Analytical and Bioanalytical
 Product Safety Labs
PYRAMID Labs

Quality Chemical Labs
 Quantex Labs
 Sancilio & Co
 Sekisui XenoTech, LLC
 SGS, Life Science Services
 SL Pharma Labs
 Southern Research
 Tedor Pharma
 TGA BioSciences
 UL Verification Services
 University of Iowa, Pharmaceuticals
 Velesco Pharmaceutical Services
 Whitehouse Labs
 Wockhardt Contract Services
 Xcellence, Capsugel
 Dosage Form Solutions

VALIDATION SERVICES

Activated Carbon Services - PACS
 Advanced Analytical Testing Lab
 AECOM
 Agalocco & Assocs
 Air Filtration Mgmt
 Ajinomoto Althea
 Alpha Analytical Labs
 Applied Control Engineering
 Automated Control Concepts
 Avista Pharma
 Biokinetics
 Bionique Testing Labs
 BioProcess Technology Consultants
 BIOQUELL, Life Sciences
 BioReliance Corp
 Boston Analytical
 Bridge Assocs Intl
 Carltext
 CARON Products - Services

Catalent Pharma Solutions
 Celsis, Analytical Services Div
Chemic Labs
 Cherokee Pharmaceuticals
 Chromak Research
 Cirrus Pharmaceuticals, a Kemwell Co
 CMIC CMO USA
 Complete Inspection Systems
 Compli LLC
 CoreRx
 CSols
 Cygnus Technologies
 Distek
 DPS
 Dr Geoffrey P Jacobs Assocs
 Dr Reddy's Labs
 EduQuest
 ENV Services
 Eurofins Lancaster Labs
 Exelead

Fette Compacting America
 Fisher BioServices
 Gateway Analytical
 Gavin Pharmaceutical Services
 Getinge USA, Life Science
 Gibraltar Labs
 Glatt Pharmaceutical Services
 Honeyman Group Ltd
 Hosokawa Micron
 Powder Systems
 Integrated Service Solutions
 Intellitech
 Intertek USA, dba QTI
 Intrasphere Technologies
 IPS-Integrated Project Services LLC
 IQVIA
 iuvo BioScience
 JAF Consulting
 JB Assocs
 Jubilant HollisterStier, Contract Mfg & Services
 Lyophilization Technology
 mdiConsultants
 Mesa Labs
Metrics Contract Services
 Microbiological Environments
 Microbiology Research Assocs

Microbiology Research Assocs

Mikart
 Mycoscience
 Nelson Labs, LLC
 NNE Pharmaplan
 O'Neal
 Orion Engineering PLLC
 Pace Analytical Life Sciences LLC
 Pall Life Sciences, Biopharmaceuticals
 Parenteral Drug Assn (PDA)
 Parsons
 PCI: Pharmaceutical Calibrations And Instrumentati
 Perigon Intl
 Pfizer CentreOne
 Pharmaceutical Validation Solutions
 Pharmalink Consulting
 PharmaSys
 pixon engineering AG
 Process Tek
 PTI Packaging Technologies & Inspection LLC
 Qpharma, A Q Pharma CO
 Quantex Labs
 R. Kraft
 RCM Technologies, Life Sciences
 Regis Technologies, Custom Pharma
 RJ Lee Group
Robert Bosch Packaging Technology, Pharmaceutical Operations
 Rommelag USA
 Sancilio & Co
 Sartorius Stedim North America
 Schiff & Co
 Scienza Labs
 Sensitech
 SL Pharma Labs
 Solvias AG
 Source BioScience
 Southern Research
 TCP Reliable
 The Center for Professional Innovation & Education
 The Rovisys Co
 Toxikon Corp
 Tunnell Consulting
 UL Verification Services
 Validation Assocs
 ValiMation
 Velesco Pharmaceutical Services
 Vindonwestech
 VTS Consultants
 Werum IT Solutions
 America
 Xcellence, Capsugel
 Dosage Form Solutions

Validation Assocs

Velesco Pharmaceutical Services

Vindonwestech

VTS Consultants

Werum IT Solutions

Whitehouse Labs

Wockhardt Contract Services

Xcellence, Capsugel

Dosage Form Solutions

Quality Chemical Labs

Quantex Labs

Sancilio & Co

Sekisui XenoTech, LLC

SGS, Life Science Services

SL Pharma Labs

Southern Research

Tedor Pharma

TGA BioSciences

UL Verification Services

University of Iowa, Pharmaceuticals

Velesco Pharmaceutical Services

Whitehouse Labs
Wockhardt Contract Services
Xcellence, Capsugel
Dosage Form Solutions
Quality Chemical Labs
Quantex Labs
Sancilio & Co
Sekisui XenoTech, LLC
SGS, Life Science Services
SL Pharma Labs
Southern Research
Tedor Pharma
TGA BioSciences
UL Verification Services
University of Iowa, Pharmaceuticals
Velesco Pharmaceutical Services
Validation Assocs
ValiMation
Velesco Pharmaceutical Services
Vindonwestech
VTS Consultants
Werum IT Solutions
America
Xcellence, Capsugel
Dosage Form Solutions
Validation Services, TEMPERATURE CONTROLLED PACKAGING
 AECOM
 Avista Pharma
 Bridge Assocs Intl
 Cold Chain Technologies
 CSols
 Exelead
 Fisher BioServices
 IPS-Integrated Project Services LLC
 JAF Consulting
 Parenteral Drug Assn (PDA)
 Pharmaceutical Validation Solutions
 PharmaSys

For vendor contact information, see Company Directory section.

RCM Technologies, Life Sciences
Ropack Pharma Solutions
Sancilio & Co
Toxikon Corp
Velesco Pharmaceutical Services
Vindonwestech
VTS Consultants
Whitehouse Labs
Xcellence, Capsugel
Dosage Form Solutions

VALIDATION SUPPORT, MANUFACTURING

Activated Carbon Services - PACS
Advanced Analytical Testing Lab
Advanced Biotechnologies
AECOM
Agalocco & Assocs
ALCAMI
Aspect Automation
Avista Pharma
Biokinetics
BioReliance Corp
Catalent Pharma Solutions
Chemical Labs
ChemPacific Corp
Cherokee Pharmaceuticals
CIMINFO Software
CMIC CMO USA
Coating Place
Compli LLC
Corden Pharma
CoreRx
CSols
Cygnus Technologies
Diversstech Co
DPS
DPT Labs
Dr Reddy's Labs
EAG Labs, Life Sciences
ETC, Sterilization Systems

Eurofins Lancaster Labs
Exelead

Fette Compacting America

Gavin Pharmaceutical Services
Getinge USA, Life Science
Gibraltar Labs
Glatt Pharmaceutical Services
Honeyman Group Ltd
Importfab
Integrated Service Solutions
Intellitech
IPS-Integrated Project Services LLC
IQVIA
JAF Consulting
JM Coull
Jubilant HollisterStier, Contract Mfg & Services
KBI BioPharma

Lonza

Mesa Labs
Metrics Contract Services
Microbiological Environments
Microbiology Research Assocs

Mikart

Norwich Pharma Services
O'Neal

Pace Analytical Life Sciences LLC
Parenteral Drug Assn (PDA)
PAREXEL Consulting
PCI: Pharmaceutical Calibrations And Instrumentati
Perigon Intl
Pharmaceutical Validation Solutions
PharmaDirections
PharmaSys
pixon engineering AG
Process Tek
Qpharma,
A Q Pharma CO
Quality Chemical Labs
RCM Technologies, Life Sciences
Regis Technologies, Custom Pharma
RJ Lee Group

Robert Bosch Packaging Technology, Pharmaceutical Operations

Robert C Vincek Design Assocs LLC
Rommelag USA
Ropack Pharma Solutions
Schiff & Co
Scienza Labs
SL Pharma Labs
Source BioScience
The Center for Professional Innovation & Education
Therapex
Tri-Tronics Co
Tunnell Consulting
ValiMation
VTS Consultants
Werum IT Solutions America
Xcellence, Capsugel
Dosage Form Solutions
Zed Industries

VALIDATION, CLEANING

AECOM
Agalocco & Assocs
ALCAMI
Alconox
Alpha Analytical Labs
Avista Pharma
Avista Pharma Solutions
Biokinetics
BIOQUELL, Life Sciences
BioReliance Corp
BlackstoneNEY
Ultrasonics
Boston Analytical

Catalent Pharma Solutions

Celsis, Analytical Services Div
Cherokee Pharmaceuticals
Chromak Research
Cirrus Pharmaceuticals, a Kemwell Co
CMIC CMO USA
Coating Place
Compli LLC
CoreRx
CSols
DPS
Dr Reddy's Labs
EAG Labs, Life Sciences
Exelead
G&W Labs
Gavin Pharmaceutical Services
Gibraltar Labs

Glatt Pharmaceutical Services
Honeyman Group Ltd
Integrated Service Solutions
IPS-Integrated Project Services LLC
IQVIA
Jubilant HollisterStier, Contract Mfg & Services
Kemwell Biopharma
Lancer USA
Microbiological Environments
Microbiology Research Assocs
Micron Technologies
Mycoscience
Nelson Labs, LLC
NNE Pharmaplan
Norwich Pharma Services
Pace Analytical
Del Caribe
Pace Analytical Life Sciences LLC
Perigon Intl
Perritt Labs
Pharmaceutical Validation Solutions
PharmaDirections
Pharmassit
PharmaSys
Primer Analytical Solutions Corp, Analytical and Bioanalytical
Process Tek

PYRAMID Labs

Qpharma, A Q Pharma CO
Quantex Labs
RCM Technologies, Life Sciences
Ropack Pharma Solutions
Schiff & Co
Scienza Labs
SGS, Life Science Services
SL Pharma Labs
Solvias AG
Tedor Pharma
TELEDYNE TEKMAR
The Center for Professional Innovation & Education
Therapex
Toxikon Corp
Tunnell Consulting
UL Verification Services
Velesco Pharmaceutical Services

Veltex Assocs

VTS Consultants
Whitehouse Labs
Xcellence, Capsugel
Dosage Form Solutions

VIROLOGY TESTING

Advanced Biotechnologies
Avista Pharma
Eurofins Lancaster Labs
Gibraltar Labs
IDEXX Labs
iuvo BioScience
PPD
SGS, Life Science Services
Solvias AG
Southern Research

VITAMIN ANALYSIS

Biolink Life Sciences
Boston Analytical

Celsis, Analytical Services Div
Chemical Labs
Chromak Research
Fortitech
iuvo BioScience
Libra Technical Center LLC
LT Industries
Microbac Labs, Southern Testing & Research Div
Microbiological Environments
Nelson Labs, LLC
Pace Analytical
Del Caribe
Perritt Labs
Pharmassit
Purolite
Quality Chemical Labs
SGS, Life Science Services
The Center for Professional Innovation & Education
UL Verification Services
Whitehouse Labs
Xylem Services GmbH

WASTE SOLIDIFICATION PRODUCTS AND CONSULTING

Bioscience
IPS-Integrated Project Services LLC
S&G Enterprises
Security Engineered Machinery

WASTE TREATMENT CONSULTING

3V TECH USA
Activated Carbon Services - PACS
ADI Systems, An Evoqua Brand
AECOM
Aquionics
Aries FilterWorks, Div ResinTech
Bioscience
Capaccio Environmental Engineering
EPCOT Intl
IPS-Integrated Project Services LLC
Mott MacDonald
Parsons
Purolite
Sabin Metal Corp
Security Engineered Machinery

WATER TESTING, CHEMICAL

Activated Carbon Services - PACS
Advanced Synthesis, Chemical Div
AECOM
ALCAMI
Alpha Analytical Labs
Associates of Cape Cod
Avista Pharma
Avista Pharma Solutions
Boston Analytical
Capaccio Environmental Engineering
Catalent Pharma Solutions
Celsis, Analytical Services Div
Cherokee Pharmaceuticals
Consumer Product Testing Co
Eurofins Lancaster Labs
Exelead
AECOM
Aquionics

WATER TESTING, MICROBIOLOGY

ALCAMI
Alpha Analytical Labs
Analytical Services
Atlas Analytical
Atmos-Tech Industries
Avista Pharma
Avista Pharma Solutions
Bioscience
Boston Analytical
Catalent Pharma Solutions
Celsis, Analytical Services Div
Chares River, Microbial Solutions
Cherokee Pharmaceuticals
Consumer Product Testing Co
Eurofins Lancaster Labs
Gibraltar Labs
Honeyman Group Ltd
iuvo BioScience
Libra Technical Center LLC
Lonza
Microbac Labs, Southern Testing & Research Div
Microbiological Environments
Microbiology Research Assocs
Mycoscience
Nelson Labs, LLC
Pace Analytical
Del Caribe
Perritt Labs
Purolite
Quality Chemical Labs
SGS, Life Science Services
SL Pharma Labs
Solvias AG
The Center for Professional Innovation & Education
Toxikon Corp
UL Verification Services
Whitehouse Labs
Xylem Services GmbH

WATER TREATMENT CONSULTING

Activated Carbon Services - PACS
ADI Systems, An Evoqua Brand
AECOM
Aquionics

Aries FilterWorks, Div ResinTech
Bioscience
Capaccio Environmental Engineering
Dr Geoffrey P
Jacobs Assocs
Honeyman Group Ltd
Microbac Labs, Southern Testing & Research Div
Mott MacDonald
Parsons
Purolite
The Center for Professional Innovation & Education
Xylem Services GmbH

WET CHEMICAL ANALYSIS

Activated Carbon Services - PACS
Advanced Analytical Testing Lab
Advanced Synthesis, Chemical Div

ALCAMI

Alpha Analytical Labs
AMRI (Albany Molecular Research)
Avista Pharma
Biolink Life Sciences
Boston Analytical
Catalent Pharma Solutions
Celsis, Analytical Services Div

Chemical Labs

Cherokee Pharmaceuticals
Chromak Research
CMIC CMO USA

Coating Place

Consumer Product Testing Co
EAG Labs, Life Sciences
Eurofins Lancaster Labs
Gibraltar Labs
Honeyman Group Ltd
iuvo BioScience

Jubilant HollisterStier, Contract Mfg & Services

Libra Technical Center LLC
Microbac Labs, Southern Testing & Research Div
Microbiological Environments
Pace Analytical
Del Caribe
Pharmassit
Prevalere Life Sciences LLC, Div
ICON Development Solutions

Primer Analytical Solutions Corp, Analytical and Bioanalytical

Product Safety Labs
Quality Chemical Labs
Regis Technologies, Custom Pharma
RJ Lee Group
SGS, Life Science Services
SL Pharma Labs
Toxikon Corp
UL Verification Services
Whitehouse Labs
Xedeve ■

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A Clear Solution to
Your Global Message

*Pharmaceutical Technology's
Multi Media Platform*

is Your Solution to Reaching
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www.pharmtech.com



2018 REGULATORY RESOURCES and INNOVATION OUTLOOK

ORGANIZATIONS/GUIDELINES/INDUSTRY EVENTS

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Regulatory and Standard Setting Organizations

AMERICAS

Brazil

Ministry of Health

Esplanada dos Ministérios
Bloco G
Brasília/DF, Brazil
CEP: 70058-900
Tel. +55 61 3315 2712
saude.gov.br

Brazilian Health Surveillance Agency (ANVISA)

Setor de Indústria e Abastecimento
Trecho 5, Área Especial 57
Brasília (DF)
CEP: 71205-050
Tel. +55 0800 642 9782
www.anvisa.gov.br

Canada

Health Canada

Address Locator 0900C2
Ottawa, ON K1A 0K9
Canada
Tel. 866 225 0709
Fax 613 941 5366
www.hc-sc.gc.ca

Health Products and Food Branch Inspectorate

Director General's Office
13th floor,
Jeanne Mance Building

200 Eglantine Driveway,
Tunney's Pasture
Ottawa, Ontario
K1A 0K9
Tel. 800 267 9675
Fax 613 952 9805
www.hc-sc.gc.ca

Mexico

Ministry of Health

Lieja No. 7
Col. Juárez Deleg.
Cuauhtémoc D.F.
C.P. 06600, Mexico
Tel. +52 5005 4000
www.gob.mx/salud

Federal Commission for Protection Against Health Risks

Oklahoma 14
Col. Nápoles
Delegación Benito Juárez
México, D.F. C.P. 03810
Tel. +52 5080 5200
www.cofepriis.gob.mx

United States of America

Food and Drug Administration

10903 New Hampshire Ave.
Silver Spring, MD
20993-0002, USA
Tel. 888 463 6332
www.fda.gov

International Pharmaceutical Excipients Council of the Americas

3138 N. 10th Street
Suite 500
Arlington, VA 22201, USA
Tel. 571 814 3449
www.ipecamericas.org

United States Pharmacopeia

12601 Twinbrook Parkway
Rockville, MD
20852-1790, USA
Tel. 800 227 8772
www.usp.org

ASIA-PACIFIC

Australia

Australian Therapeutic Goods Administration

PO Box 100
Woden ACT 2606, Australia
Tel. +61 1800 020 653
Fax +61 02 6203 1605
www.tga.gov.au

China

Chinese Pharmacopoeia Commission: Beijing WEIBIAO Center for Drug Standard Research & Development

Building No. 11, Fahua Nanli,
Tiyuguan Road, Beijing
100061 P.R. China

Tel. +86 10 67079644
Fax +86 10 67152766
www.chp.org.cn

International Pharmaceutical Excipients Council of China

Fenglan International Center
No.32, Xizhimen North St.,
Room 1106, 11th Floor
Office Bldg. B
Haidian District, Beijing,
100082, PRC
Tel. +86 10 82212866 6008
www.ipec-china.org

National Institutes of Food and Drug Control

No. 29 Huayuan Road
(East District);
No. 31 Hospital (West Dis-
trict), Daxing District,
Beijing 1102629 China
www.nifdc.org.cn

State Food and Drug Administration

26 Xuanwumen Xidajie
Beijing, 100053
P.R. China
Fax +86 010 68310909
eng.sfda.gov.cn

India

Central Drugs Standard Control Organization

Directorate General
of Health Services
Ministry of Health
and Family Welfare
FA Bhavan, ITO, Kotla Road
New Delhi 110002 India
Tel. +91 11 23236975
Fax +91 11 23236973
www.cdsc.nic.in

Department of Health Research

Indian Council
of Medical Research
2nd Floor, IRCS Building
1, Red Cross Road,
New Delhi 110001 India
Tel. +91 98910 40952
www.dhr.gov.in

Japan

International Pharmaceutical Excipients Council of Japan (JPEC)

No. 9-16 Kuzute north Chiyo-
oda-ku, Tokyo 102-0073
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kawasaki-ku, Kanagawa,
210-9501, Japan
Tel. +81 44 270 6600
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www.nihs.go.jp

Pharmaceuticals and Medical Devices Agency

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3-3-2 Kasumigaseki
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Tel. +81 3 3506 9456
Fax +81 3 3506 9572
www.pmda.go.jp

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Institute for Medical Research

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Kuala Lumpur, Malaysia
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www.imr.gov.my

National Pharmaceutical Control Bureau

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46200 Petaling Jaya
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Tel. +60 3 7883 5400
Fax +60 3 7956 2924
www.bpfk.gov.my

New Zealand

New Zealand Medicines and Medical

Devices Safety Authority

PO Box 5013
Wellington 6140
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Tel. +64 04 819 6800
www.medsafe.govt.nz

South Korea

Ministry of Food and Drug Safety

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Ministry of Health

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Russian Ministry of Health

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Turkey

Ministry of Health

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EUROPE

European Chemicals Agency

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European Commission

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1040 Brussels, Belgium
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European Medicines Agency

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Belgium

Federal Public Service: Health, Food Chain Safety, and Environment

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**Ministry of Health,
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Switzerland**Swiss Agency for
Therapeutic Products**

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PO Box CH-3000
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United Kingdom**Medicines and
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**MIDDLE EAST
& AFRICA****Egypt****Ministry of
Health and Population**

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Key FDA, EMA, and ICH Manufacturing Related Guidances and Guidelines

(Issued June 2017–May 2018, starting with the most recent)

FDA Final Guidances

Bioanalytical Method Validation
May 2018

Facility Definition Under Section 503B of the Federal Food, Drug, and Cosmetic Act
May 2018

Assessing User Fees Under the Prescription Drug User Fee Amendments of 2017
May 2018

Q7 Good Manufacturing Practice Guidance for Active Pharmaceutical Ingredients Questions and Answers
April 2018

Providing Regulatory Submissions in Electronic Format—Certain Human Pharmaceutical Product Applications and Related Submissions Using the eCTD Specifications
April 2018

Q11 Development and Manufacture of Drug Substances—Questions and

Answers (Chemical Entities and Biotechnological/Biological Entities)
February 2018

Regulatory Classification of Pharmaceutical Co-Crystals
February 2018

Mixing, Diluting, or Repackaging Biological Products Outside the Scope of an Approved Biologics License Application
January 2018

Waiver of *In Vivo* Bioavailability and Bioequivalence Studies for Immediate-Release Solid Oral Dosage Forms Based on a Biopharmaceutics Classification System
December 2017

General Principles for Evaluating the Abuse Deterrence of Generic Solid Oral Opioid Drug Products
November 2017

Completeness Assessments for Type II API DMFs Under GDUFA
October 2017

ANDA Submissions—Prior Approval Supplements Under GDUFA
October 2017

Advancement of Emerging Technology Applications for Pharmaceutical Innovation and Modernization
September 2017

Generic Drug User Fee Amendments of 2012: Questions and Answers Related to Self-Identification of Facilities, Review of Generic Drug Submissions, and Inspections and Compliance
July 2017

FDA Draft Guidances

Development of a Shared System REMS
May 2018

Waivers of the Single, Shared System REMS Requirement
May 2018

Q12 Technical and Regulatory Considerations for

Pharmaceutical Product Lifecycle Management Core Guideline
May 2018

Q12 Technical and Regulatory Considerations for Pharmaceutical Product Lifecycle Management Annex
May 2018

Metered Dose Inhaler (MDI) and Dry Powder Inhaler (DPI) Drug Products—Quality Considerations
April 2018

Standardized Format for Electronic Submission of NDA and BLA Content for the Planning of Bioresearch Monitoring (BIMO) Inspections for CDER Submissions
February 2018

Good ANDA Submission Practices
January 2018

Product Title and Initial US Approval in the Highlights of Prescribing Information for Human Prescription Drug and Biological Products—Content and Format
January 2018

Drug Products, Including Biological Products, That Contain Nanomaterials
December 2017

ANDAs: Pre-Submission of Facility Information Related to Prioritized Generic Drug Applications (Pre-Submission Facility Correspondence)
November 2017

Controlled Correspondence Related to Generic Drug Development
November 2017

Format and Content of a REMS Document
October 2017

Post-Complete Response Letter Meetings Between FDA and ANDA Applicants Under GDUFA
October 2017

Determining Whether to Submit an ANDA or a 505(b)(2) Application
October 2017
ANDA Submissions—Refuse-to-Receive Standards: Questions and Answers
October 2017

ANDA Submissions—Amendments to Abbreviated New Drug Applications Under GDUFA
October 2017

Providing Regulatory Submissions in Electronic Format—Content of the Risk Evaluation and Mitigation Strategies Document Using Structured Product Labeling
September 2017

Statistical Approaches to Evaluate Analytical Similarity
September 2017

Child-Resistant Packaging Statements in Drug Product Labeling
August 2017

CMC Postapproval Manufacturing Changes for Specified Biological Products To Be Documented in Annual Reports
August 2017

Pending Guidances

View a list of FDA guidances under development at www.fda.gov/RegulatoryInformation/Guidances.

EMA Draft Papers, Guidelines, and Procedures

Draft Guideline on the Responsibilities of the Sponsor With Regard to Handling and Shipping of Investigational Medicinal Products for Human Use In Accordance With Good Clinical Practice and Good Manufacturing Practice
May 2018

Guideline on Good Pharmacogenomic Practice—First Version
March 2018

Draft Guideline on Safety and Efficacy Follow-Up and Risk Management of Advanced Therapy Medicinal Products—Revision 1
February 2018

Guideline on Quality Aspects Included in the Product Information for Vaccines for Human Use
February 2018

Reflection Paper on the Use of Extrapolation in the Development of Medicines for Paediatrics
October 2017

Draft Guideline on Good Pharmacovigilance Practices (GVP)—Product- or Population-Specific Considerations IV: Paediatric Population
August 2017

Reflection Paper on the Pharmaceutical Development of Medicines for Use in the Older Population—First Version
August 2017

EMA Adopted or Updated Papers, Guidelines, and Procedures

Guideline on the Assessment of Clinical Safety and Efficacy in the Preparation of EU Herbal Monographs for Well-Established and Traditional Herbal Medicinal Products
November 2017

Annex to the European Commission Guideline on 'Excipients in the Labelling and Package Leaflet of Medicinal Products For Human Use'
October 2017

Guideline on Good Pharmacovigilance Practices (GVP): Module IX Addendum I—Methodological Aspects of Signal Detection From Spontaneous Reports of Suspected Adverse Reactions
October 2017

Questions and Answers on Boric Acid and Borates Used as Excipients in Medicinal Products for Human Use
October 2017

Guideline on Manufacture of the Finished Dosage Form—Revision 1
August 2017

Guideline on Influenza Vaccines—Quality Module Revision 1
July 2017

ICH Guidelines

Q12 Technical and Regulatory Considerations for Pharmaceutical Product Lifecycle Management
November 2017

SOURCE FOR INFORMATION HEREIN: FDA WEBSITE (WWW.FDA.GOV), EMA WEBSITE (WWW.EMA.EUROPA.EU), AND ICH WEBSITE (WWW.ICH.ORG), AS OF MAY 2018.



July 2018 to May 2019

UPCOMING EVENTS

Upcoming Events

(July 2018–May 2019*)

July 2018

32nd Annual Symposium of the Protein Society

Date: July 9–12

Location: Boston, MA

More Info: www.proteinsociety.org/page/annual-symposium

SMI Group's ADMET Conference And Exhibition

Date: July 9–10

Location: London, UK

More Info: www.smi-online.co.uk

Annual Meeting & Exposition of the Controlled Release Society

Date: July 22–24

Location: New York, NY

More Info: <https://2018.controlledreleasesociety.org>

16th International Conference and Exhibition on Pharmaceutical Formulations

Date: July 26–27

Location: Rome, Italy

More Info: <https://formulation.pharmaceuticalconferences.com>

August 2018

CBI's 13th Annual Forum on Manufacturing Execution Systems (MES)

Date: Aug. 13–14

Location: Philadelphia, PA

More Info: www.cbinet.com/conference/pc14144

The Bioprocessing Summit

Date: Aug. 13–17

Location: Boston, MA

More Info: www.bioprocessing-summit.com

IVT's 4th Annual Data Integrity Validation Conference

Date: Aug. 15–16

Location: Cambridge, MA

More Info: www.cbinet.com/conference/pi18123

CHI's Annual High-Concentration Protein Formulations

Date: Aug. 15–16

Location: Boston, MA

More Info: www.bioprocessingsummit.com/Protein-Formulations

American Chemical Society National Meeting & Exposition

Date: Aug. 19–23

Location: Boston, MA

More Info: www.acs.org

CPhI Korea

Date: Aug. 28–30

Location: Seoul, Korea

More Info: www.cphi.com/korea

September 2018

CPhI Middle East & Africa

Date: Sept. 3–5

Location: Abu Dhabi, UAE

More Info: <https://ubm.cphi.com/mea18mp/>

16th Annual Pharmaceutical IT Congress

Date: Sept. 20–21

Location: London, UK

More Info: www.pharmatechnology-summit.com

2018 PDA/FDA Joint Regulatory Conference

Date: Sept. 24–26

Location: Washington, DC

More Info: www.pda.org

Cold Chain Global Forum**Date:** Sept. 24–27**Location:** Philadelphia, PA**More Info:** www.coldchain-globalforum.com**SMI's 9th Annual Biosimilars & Biobetters Conference****Date:** Sept. 26–27**Location:** London, UK**More Info:** www.smi-online.co.uk**October 2018****CPhI Worldwide****Date:** Oct. 9–11**Location:** Feria de Madrid, Spain**More Info:** www.cphi.com**bioLIVE****Date:** Oct. 9–11**Location:** Feria de Madrid, Spain**More Info:** www.bio.live**Cell & Gene Therapy****Date:** Oct. 10–11**Location:** London, UK**More Info:** www.smi-online.co.uk**PDA Pharmaceutical****Microbiology****Date:** Oct. 15–16**Location:** Berlin, Germany**More Info:** www.pda.org**NORD's Rare Diseases and Orphan Products Breakthrough Summit****Date:** Oct. 15–16**Location:** Washington, DC**More Info:** rarediseases.org/summit-overview**9th Annual Life Sciences Compliance Congress West****Date:** Oct. 17–18**Location:** San Francisco, CA**More Info:** www.cbnet.com/conference/pc17151**PDA Visual****Inspection Forum****Date:** Oct. 23–24**Location:** Berlin, Germany**More Info:** www.pda.org**24th Annual Validation Week****Date:** Oct. 22–24**Location:** San Diego, CA**More Info:** www.cbnet.com/conference/pi18083**World Vaccine****Congress Europe 2018****Date:** Oct. 29–31**Location:** Lisbon, Portugal**More Info:** www.terrapinn.com/conference/world-vaccine-congress-europe**November 2018****ISPE Annual Meeting & Expo****Date:** Nov. 4–7**Location:** Philadelphia, PA**More Info:** www.ispe.org/conferences/2018-annual-meeting-expo**AAPS PharmSci 360****Date:** Nov. 4–7**Location:** Washington, DC**More Info:** www.aaps.org/annualmeeting**BIO-Europe 2018****Date:** Nov. 5–7**Location:** Copenhagen, Denmark**More Info:** ebdgroup.knec365.com/bioeurope**PDA Europe Pharmaceutical Freeze Drying Technology****Date:** Nov. 27–28**Location:** Seville, Spain**More Info:** www.pda.org**December 2018****14th Life Sciences Trade and Channel Strategies****Date:** Dec. 11–12**Location:** Philadelphia, PA**More Info:** www.cbnet.com/conference/pc16183**CPhI India****Date:** Dec. 12–14**Location:** Delhi NCR, India**More Info:** www.cphi.com/india**January 2019****Biotech Showcase 2019****Date:** Jan. 7–9**Location:**

San Francisco, CA

More Info: www.ebdgroup.com/bts**February 2019****Annual DIA Europe****Date:** Feb. 5–7**Location:** Vienna, Austria**More Info:** www.diaglobal.org/conference-listing/meetings/2019/02/dia-europe-2019**March 2019****BIO Asia International****Date:** March 5–6**Location:** Tokyo, Japan**More Info:** www.bio.org/events/bio-asia-international-conference**2019 PDA Annual Meeting****Date:** March 11–13**Location:** San Diego, CA**More Info:** www.pda.org**CPhI South East Asia****Date:** March 12–14**Location:** Bangkok, Thailand**More Info:** www.cphi.com/sea**Pittcon 2019****Date:** March 17–21**Location:** Philadelphia, PA**More Info:** www.pittcon.org**CPhI Japan****Date:** March 18–20**Location:** Tokyo, Japan**More Info:** www.cphi.com/japan/**DCAT Week 2019****Date:** March 18–21**Location:** New York, NY**More Info:** www.dcat.org**April 2019****INTERPHEX 2019****Date:** April 2–4**Location:** New York, NY**More Info:** www.interphex.com**World Vaccine Congress****Date:** April 14–17**Location:** Washington, DC**More Info:** www.terrapinn.com/conference/world-vaccine-congress-washington/index.stm**CPhI North America****Date:** April 30–May 2**Location:** Chicago, IL**More Info:** <http://cphi-northamerica.com/>**InformEx 2019****Date:** April 30–May 2**Location:** Chicago, IL**More Info:** www.informex.com**May 2019****Managed Access Programmes and Accelerated Pathways****Date:** May 15–16**Location:** Amsterdam, The Netherlands**More Info:** <http://cbnet.com/conference/>**Information current as of June 1, 2018.*For more events throughout the year, visit PharmTech.com/events.

Dr. Johannes Rauschnabel
Chief Pharma Expert at Bosch Packaging Technology
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HOW THE MEGATREND BIOLOGICS IMPACTS EQUIPMENT DEVELOPMENT AND CHANGES ROLE CONCEPTS

The market for pharmaceuticals is developing at an unusually rapid pace. Manufacturing companies are confronted with enormous challenges due to high market growth, new medicines and therapy forms, changing regulations and progressing digitization.

One of the most important pharmaceutical trends is the development of biologics, which are extending to more and more people and regions. Groundbreaking changes are occurring in the treatment of cancer, autoimmune diseases, and rare illnesses. In the still relatively new cancer immunotherapy, for example, the body's own immune system is stimulated to fight against tumor cells. Monoclonal antibodies attach themselves to the tumor surface and mark the cells for macrophages or induce cell death.

A highly promising research and application area deals with antibody-drug conjugates (ADCs). These high-quality biopharmaceuticals connect a certain substance to an antibody, which binds to a target structure such as an antigen on the surface of a tumor cell. This way, cytostatic agents—natural or synthetic substances, which inhibit either cell growth or cell division—can get to the center of the tumor cell and unfold their chemotherapeutic effect.

These innovations have some requirements in common: intensive research and development, the need for high-quality equipment, as well as adequate production environments to ensure a fast time-to-market. Pharmaceutical manufacturers must also adhere strictly to legal requirements and adapt their production environments to the demands of highly potent substances.

ADCs, for instance, are toxic to the operator. At the same time, humans pose the greatest contamination risk to products by shedding non-sterile particles. The effective protection of humans and products from each other requires suitable containment technology such as isolators. In addition, the development of new filling and packaging solutions, such as pre-sterilized syringes, vials, or cartridges, as well as single-use filling systems, has led to the requirement for new, connected line concepts.

In the course of these changes, the roles of drug producers and equipment manufacturers have also changed—from a mere business relationship of purchaser and vendor to a partner-like collaboration, where equipment suppliers assume more responsibility. Instead of focusing on a single machine, there is a trend towards complete solutions that go far beyond technical or mechanical know-how. This way, suppliers accompany the entire process with profound market knowledge and technological expertise before, during, and after project implementation, thus ensuring a fast time-to-market of new pharmaceuticals.

ABOUT DR. JOHANNES RAUSCHNABEL

Dr. Johannes Rauschnabel is chief pharma expert at Bosch Packaging Technology. With a PhD in chemistry, he has more than 25 years of experience in research and development and has worked in the pharmaceutical industry for more than 15 years.

ABOUT BOSCH PACKAGING TECHNOLOGY

Bosch Packaging Technology—product division Pharma is one of the leading providers of process technology and packaging solutions for the pharmaceutical industry. The portfolio includes single units, complete lines, and integrated systems for the manufacturing and processing of liquid and solid pharmaceuticals.



BOSCH
Invented for life

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Simon Edwards
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FOCUSING ON SMALL MOLECULES

Despite the obvious interest and investment we have seen in the biologics market recently, which is set to continue, we fully expect small molecules will remain a core focus for the pharmaceutical industry in the foreseeable future, with FDA approvals expected to remain at c. 25–35 NCEs per year. We anticipate that oncology will continue to account for a growing number of product approvals (currently around 30% of new small-molecule drugs) as well as drugs being developed for orphan indications.

Contract manufacturing organizations (CMOs) have had to undergo many changes to adapt to industry pressures and changes, but growth is being witnessed among western CMOs as customers revert back to a focus on quality, and projects are being repatriated to suppliers in the US and Europe, and this resurgence must be supported by CMOs that are willing to evolve. Companies will continue to either expand organically or strengthen their presence through M&A activity, and strategies must match market needs. The volume of demand for APIs has been trending from the hundreds of tons per annum to the tens of tons and less, so CMOs need to be similarly critical in their investments in the right capacity.

When analyzing and reviewing the market, technological expertise will again be the differentiating factor between CMOs. This is somewhat coming full circle back to the birth of the CMO industry in the 1970s, before API manufacturers joined the gold rush and the race to compete. This led to many CMOs becoming similar in their market offerings, whereas companies are now back to a time where CMOs must once again be seen as experts to attract new customers and distinguish themselves from the undifferentiated ‘capacity-for-hire’ model that boomed during the 1990s–2000s.

CMOs looking to capitalize on current demands are looking to grow and integrate themselves as part of the wider supply chain. But, in the case of small molecules, it does not necessarily mean offering all components along the value chain to fill/finish. At Cambrex, we feel it is more important to work with the customer and identify what value and expertise we can bring to them. For example, integration can equally mean the ability to control more of the raw material supply chain, or being able to manage complex chemistry so that more of the chemical process can be conducted under one roof rather than the customer having to manage multiple suppliers.

ABOUT SIMON EDWARDS

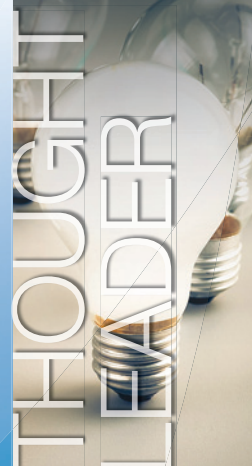
Simon Edwards has almost 30 years' experience in business development roles in the pharmaceutical intermediate and API market. After graduating in chemistry, he spent three years in chemical development and clinical supply at GSK before moving into business development in 1989 with International Bio-Synthetics. He moved to the US in 1997 and spent 16 years with Lonza prior to joining Cambrex in April 2013 as vice president of Sales and Business Development.

ABOUT CAMBREX

Cambrex is an innovative life-sciences company that provides pharmaceutical products, expertise and technologies that accelerate small molecule therapeutics into markets across the world. With over 35 years of API and manufacturing expertise, a team of more than 1200 experts and a strong presence in the USA and Europe, Cambrex is tried and trusted across branded and generic API markets.



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INNOVATION OUTLOOK

THOUGHT
LEADER

INNOVATION OUTLOOK

Elliot Berger
Vice President, Global Marketing and Strategy
Catalent Pharma Solutions



BETTER TREATMENTS BY DESIGN

While innovation levels within formulation techniques across the industry remain high, development portfolios are slow to change, and we continue to see many of the same challenges. There is a need to characterize and evaluate formulation and delivery challenges early in development and quickly to help innovators avoid more costly failures.

Poorly soluble small molecules remain common, and the need for bioavailability enhancing formulations continues to grow. Addressing issues at an early development stage can help prevent failures due to a lack of efficacy caused by poor bioavailability, when the dose is later scaled up.

The trend to serve specific patient groups continues, and regulators are making patient considerations mandatory. FDA, for example, has a requirement for drug innovators to perform pediatric studies, as adult formulations and dosage forms may be inappropriate for younger patients, necessitating additional formulation development and studies to ensure, for example, that excipients are safe in children.

We are also seeing an increasing number of programs targeting orphan diseases, despite the relatively small market potential for rare, but often severe and highly debilitating conditions. While volume is lower, there may be unique patient considerations that need to be designed into the drug.

Demand for modified release technologies continues to be high, and when used to optimize the pharmacokinetic and pharmacodynamic properties of a new molecular entity, modified or controlled release formulations are often well suited to an increasing proportion of potent drugs. They are also being used to extend the life of a marketed product by making it more convenient and acceptable, or mitigating loss of share to generics at the end of patent life.

Further challenges exist in the areas of proteins and other biologics, including characterization and consistent manufacturing, and there remains the desire to deliver large molecules non-invasively, for example, as oral doses. Additionally, new treatment modalities, such as cell and gene therapy, require even more drug delivery innovation.

Drugs are more frequently being developed by smaller or even virtual pharma companies that may lack some, or all the resources to progress a program alone. Development partners such as Catalent can take a molecule from the bench to the clinic, and on to market.

ABOUT CATALENT

Catalent is the leading global provider of advanced delivery technologies and development solutions for drugs, biologics, and consumer health products. With more than 80 years serving the industry, Catalent has proven expertise in bringing more customer products to market faster, enhancing product performance, and ensuring reliable clinical and commercial product supply. Catalent employs approximately 11,000 people, including over 1400 scientists, at more than 30 facilities across five continents, and in fiscal 2017 generated over \$2 billion in annual revenue. Catalent is headquartered in Somerset, New Jersey.

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Dale Natoli
President
Natoli Engineering Company



MINIMIZE TABLET PRODUCTION CHALLENGES WHILE STILL IN R&D

Developing a robust solid-dose formulation that can be scaled up for manufacturing without encountering tableting issues is an ongoing challenge. During research and development, scientists typically use a small-scale press to study their product's tableting ability, including collecting data on how the formulation behaves in relation to variations in compression force and dwell time. These factors affect the final thickness, density, and hardness (tensile strength) of the tablet and thus help determine the ideal compression profile for a tablet.

However, mechanical and operational differences between an R&D press and a production press mean that transferring a product during scale-up to manufacturing is not always successful. The operational differences between R&D and production presses also significantly affect a continuous manufacturing environment as powder is timed to flow at a certain rate, severely limiting the ability to vary turret speeds. Additionally, because of differences in turret speed between an R&D press and a production press, dwell time can be difficult to replicate on a production press.

Natoli Engineering Company has drawn on many decades of tablet compression experience to develop an innovative solution to mitigate the operational differences between R&D and production presses. Natoli Quick-Release™ Tooling allows researchers to test different dwell times during the tablet R&D process without changing turret speed, the expense of buying several different sets of tools, or the time needed to change complete sets of tooling.

Each Natoli Quick-Release™ Tooling set comes with a punch barrel, three interchangeable heads—domed head configuration, extended flat domed configuration, and no flat/full radius head configuration—and one punch tip that can be custom selected by the customer.

Natoli Quick-Release™ Tooling is a major advancement for tablet compression. It helps resolve tableting issues in the development stage, allowing manufacturers to speed time to production and reduce costs. Natoli Quick-Release™ Tooling provides the opportunity to easily and quickly test different dwell times without the expense of buying several sets of tools and can determine ideal dwell times on a small-turret R&D tablet press before scale-up to a production press.

Natoli Quick-Release™ Tooling allows research and development teams to mitigate or solve tableting challenges in the development stage before scale-up to full production.

Call your Natoli representative or visit www.natoli.com to find out how Quick-Release™ Tooling can solve your tableting scale-up issues.

ABOUT DALE NATOLI

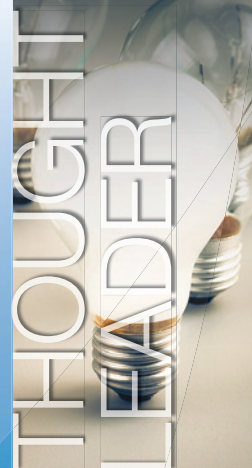
Author of chapters in three books, Mr. Natoli has more than 30 years of experience in the tableting industry. He conducts lectures for universities, pharmaceutical associations, and tablet manufacturers worldwide.

ABOUT NATOLI ENGINEERING

Natoli Engineering Company, Inc., the undisputed global leader in tablet compression tooling manufacturing, is the worldwide source for superior tablet compression and encapsulation equipment and support services.



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INNOVATION OUTLOOK

Jeffrey Fleitman, PhD
Vice-President Operations
PYRAMID Laboratories, Inc.



EMERGING CHALLENGES IN THE BIOPHARMACEUTICAL INDUSTRY

The largest growth in the pharmaceutical industry is projected to be biopharmaceuticals, which currently represent approximately 20% (1) of revenue. Revenue growth tops 8% annually which is almost double that of conventional Pharma (2).

The biopharmaceuticals market has the opportunity for huge growth, especially in areas where therapeutic treatment was previously unavailable. This has increased market demand and profit margin for entities that provide some degree of treatment.

Growth, however, is not unchallenged. Cumbersome regulatory requirements and manufacturing complexity combine to increase development costs and time to market.

Biopharmaceutical manufacturing facilities can cost hundreds of millions of dollars to build compared to tens of millions for small-molecule manufacturing facilities. Biopharmaceutical facilities are typically very expensive to run yet produce low yields that are dependent on expensive raw materials.

Each new biopharmaceutical entity will require customized manufacturing and quality assurance procedures. Typically, these requirements are quite different from small-molecule drug products, and manufacturers are challenged to gather the resources to develop these complex entities.

Contract-manufacturing organizations (CMOs) need to demonstrate technical expertise while meeting innovative requirements. The CMO is usually faster and more nimble than big pharma. In an industry where being first to market commands premium pricing and often patent exclusivity, these are important considerations. Additionally, a CMO may have experience working on a number of new chemical entities and the expertise gained from such exercises significantly reduces cost, time to clinic and resultant time to market.

CMOs such as PYRAMID Laboratories offer the technical, regulatory, and compliance expertise to development partners that may not have the internal technical expertise or manufacturing resources to bring promising biopharmaceutical candidates to clinical studies, regulatory filing, and approval. Partnering with PYRAMID Laboratories increases a client's chance of success in meeting unmet patient needs by successfully bringing these novel biotechnologies to market expeditiously while reducing development costs.

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ABOUT JEFFREY FLEITMAN, PHD

Jeff Fleitman is vice president of Operations at Pyramid Laboratories, Inc. He oversees manufacturing and development activities for aseptic lyophilized and solution dosage forms.

ABOUT PYRAMID LABORATORIES, INC.

PYRAMID provides contract aseptic manufacturing, lyophilization, and analytical services for sterile injectable drugs. PYRAMID's expertise is formulation, process development, and aseptic filling for vials and syringes.



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George Butcher
Pharmaceutical Product Manager
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POLYMORPHISM—IDENTIFYING THE SHAPESHIFTERS

The stability, bioavailability, and processability of an active pharmaceutical ingredient (API) are key to a candidate molecule's ability to be developed into a commercially viable product.

Characterising the different polymorphic forms of a drug and selecting the optimum polymorph for drug products has become an important consideration in this process.

Different drug polymorphs can vary markedly in properties such as their dissolution rate, solubility, bioavailability, and stability. From ensuring the correct polymorph remains throughout a product's shelf life, to aspects of patent law as a means of both extending and circumventing existing patents, increasing amounts of money and resource are being devoted to characterising polymorphism.

Current methods for determining polymorphism can be expensive, resource-intensive, and require expert users to operate equipment and interpret data.

Raman spectroscopy is well-suited to investigating polymorphism. It takes advantage of the Raman effect; a phenomenon of the change in frequency of light interacting with matter and was first observed by Sir CV Raman in 1928.

Raman spectra are unique to the molecular and lattice structure of the analyte. When multiple spectra are collected over a sample surface, typically using a laser, a high-definition Raman image of the sample's microstructure can be obtained that identifies all the chemical components, their sizes, and distributions.

This powerful technique can be used for characterising blends of material, such as tablets and powders. Such material can appear homogeneous on a length scale of tens of microns, however, because each pixel comprises a full Raman spectrum and can represent an area as small as 1 μm^2 , local inhomogeneity can be probed.

The *European Pharmacopoeia* has recently released a new general chapter 5.24 on chemical imaging, including Raman imaging, and how it can be employed to help inform drug development. There is increasing awareness and a market appetite for new techniques to help solve formulation problems, or perhaps preferably to design around problems thus avoiding them in the first place

Though polymorphism can arise spontaneously — as in the infamous case of Abbot's Norvir™ — it can also be the case that two polymorphic forms exist side by side as a ratio following the API synthesis. Processing and manufacturing may cause one of the two forms to convert into the other and the polymorph ratio may be different in the final product to that of the original API. Understanding scenarios like this and their consequences is crucial to the success of the product.

One of the main barriers to Raman imaging being employed more routinely, earlier in the development process, is its perception as a specialist technique. Renishaw has tackled this with its new RA802 Pharmaceutical Analyser. By designing a system specifically for the pharmaceutical industry, in a simple to use format, it's possible to analyse multiple samples quickly to help build a complete picture of a formulation's design space and inform drug development choices.

For more information on how RA802 can help you to identify polymorphism and whether it could be the solution for your organization, contact us at raman@renishaw.com.

ABOUT GEORGE BUTCHER

George has a master's degree in chemistry. His career has spanned R&D, product management, and business development areas within the pharmaceutical industry.

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Renishaw is a recognized leader in Raman spectroscopy, producing high performance Raman systems for a range of applications.

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INNOVATION OUTLOOK

Mike Osgar
Vice President, Engineering
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REDUCING RISK IN SUS IMPLEMENTATION

The adoption of single-use systems (SUS) in biopharma processing is now widespread and continues to grow: SUS offer improved flexibility, reduced risk of contamination, and lower costs. But with any significant new technology, particularly in a highly regulated industry, standards are required in order for successful adoption to occur. In the past few months, new guidelines on extractables testing, particulate measurement/control, and quality agreements have been published by industry working groups BPSA and BPOG, which will greatly benefit SUS suppliers and users alike. The drive for standardization of SUS by these industry working groups is similar to the SEMI standard initiatives in the 1970s, a subset of which established standardized testing and allowable limits of trace metals of process chemicals used by the semiconductor industry. In that case, process chemicals suppliers, testing instrumentation (ICP-MS) suppliers and users (semiconductor companies) worked together to improve products and processes that supported continuous increases in semiconductor performance.

Beyond the development of standard test methods, key to minimizing risk in SUS adoption is the establishment of close working relationships between potential SUS suppliers and users. By partnering with potential SUS suppliers at an early stage, users can derive the maximum benefit from any future supplier relationship. This can result in a better performing or higher quality SUS product, stronger supply chain assurance, and also easier and faster validation and qualification.

While standardization of testing and measurement is an important step forward for SUS in bioprocessing, the standardization of SUS product design, such as fittings or dimensions to simplify adoption, may have a negative effect and limit the availability of new SU technology. For example: single-use hard plastic containers and fluoropolymer bottles are used for the freezing and storage of bulk drug substance prior to final fill. These bottles and containers have been traditionally manufactured by extrusion blow molding. A newer manufacturing technology, known as stretch blow molding, offers two key benefits in bioprocessing: superior closure integrity and significantly lower particulates. Standardizing on existing, older container design could deny the availability of new technology to biopharma users.

SUS adoption is at an exciting stage for the industry: standardization of SUS testing and measurement is rapidly developing. By partnering with potential SUS suppliers, Biopharma companies can challenge SUS suppliers to develop products for better performance, lower risk, and easier qualification, which will benefit the industry as a whole.

ABOUT MIKE OSGAR

Mike Osgar is co-owner and Vice President of Engineering at Savillex Corporation and has more than 30 years experience in the semiconductor, analytical chemistry, and biopharmaceutical industries.

ABOUT SAVILLEX CORPORATION

Savillex Corporation is based in Eden Prairie, MN, USA and specializes in fluoropolymer molding, including PFA and FEP single-use bottles for biopharma.



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Christopher Kotevich
Director of Sales and Marketing
Embocaps® by Suheung



CAPSULE SUPPLY CONSIDERATIONS IN THE YEAR 2018

So many capsule choices ... How do you decide on a capsule supplier? Step one—separate the wheat from the chaff using business sustainability logic.

Capsule manufacturers who own their own technology and produce their own manufacturing equipment are the only ones worth considering. These manufactures have invested in themselves and are the industry experts.

This cuts the list down to a number you can count on one hand. The “global leading suppliers”. Step two—Eliminate the “non-issues” which cloud the water and focus on the two real value drivers.

A. Availability and logistics—a non-issue

- All of the global leading suppliers have enough capacity to supply you.
- All of the global leading suppliers have decades of experience in global capsule supply chains.

B. Ascetics and custom branding—a non-issue

- All of the global leading suppliers have ample technology to produce the capsule you require.

C. Composition equivalency and chemical performance—a non-issue

- All of the global leading suppliers are manufacturing the capsules using the identical grades of starting materials, purchased from the identical vendors, in the same percentages. This has been vetted through various regulatory bodies over many decades.

D. Regulatory and quality compliance—a non-issue

- All of the global leading suppliers will pass your audit.
- All of the global leading suppliers are already supplying your industry in your market.

E. R&D and technical support

- All of the global leading suppliers will support your R&D and Technical requirements

F. Filling machine performance—issue for consideration

G. Purchase price—issue for consideration

Step Three—Focus on the only two real issues for consideration—machine performance and price.

There is a huge range in empty capsule pricing and a huge range in empty capsule filling performance. This relationship is not linear.

Capsules must, first and foremost, perform to the high level you expect in your manufacturing process. A capsule which runs poorly and is problematic should not be purchased at any price.

Unfortunately, it is quite common to not realize that your current capsule performs poorly and you are overpaying. You don't know what you don't know.

Focussing on these two issues can lead to positive results in material costs and production efficiencies.

ABOUT CHRISTOPHER KOTEVICH

Christopher Kotevich is the director of Sales and Marketing for Suheung America Corporation. Chris has held executive and senior technical advisory roles at various capsule manufactures spanning four continents over three decades.

ABOUT EMBOCAPS®

Embocaps® by Suheung is a leading global supplier of Premium Hard Capsules. Available in sizes 000 thru 5, Embocaps® capsules are designed and manufactured to provide superior filling performance. Various gelatin varieties, vegetarian varieties, capsules suitable for liquid fills, and both immediate, and delayed, release formulations available as stock or custom order.



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PYRAMID Laboratories, Inc. is a CMO focused on parenteral drug products, offering a comprehensive pipeline of services. Established in 1988 in Southern California, we offer aseptic vial and syringe filling, as well as lyophilization capabilities, for both Clinical and Commercial products. Our laboratory offers product development and analytical capabilities in a cGMP/GLP setting.


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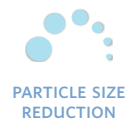


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