

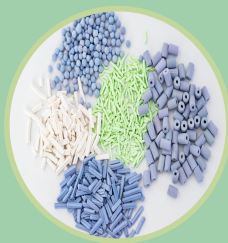
CATALYSTS & ADSORBENTS BED GRADING & SUPPORT



About us

Established in 1992, Chempack as a proficient manufacturer and solution provider of catalysts, purification, adsorbent, and support balls, has around 30 years industrial experience of material technologies, engineering design, and technical support.

It's worth mentioning that we have more than 200 innovative products for oil refining and petrochemical like FCC, CCR, Hydrocracking, Hydroprocessing, Bed Grading, Syngas, Sulfur Recovery, Gas Purification, Catalyst Bed Support, and more.



200 +

industrial products in
our portfolio



100291 +

tons of catalysts &
adsorbents delivered



5 +

manufacturing sites
for different products

Quality Assurance

Chempack has been devoting all in the research and development of the material reaction process for the industry of oil refining, petrochemical, natural gas, coal chemical, emission management.



We understand your difficulties, while there are lots of factors within the influence.



Chempack engineers and implements a wide array of processes for the project of chemical processing, hydroprocessing, and emission control. With the capability of design technologies, process customization, and manufacturing techniques, we help your business to proceed with no boundaries.

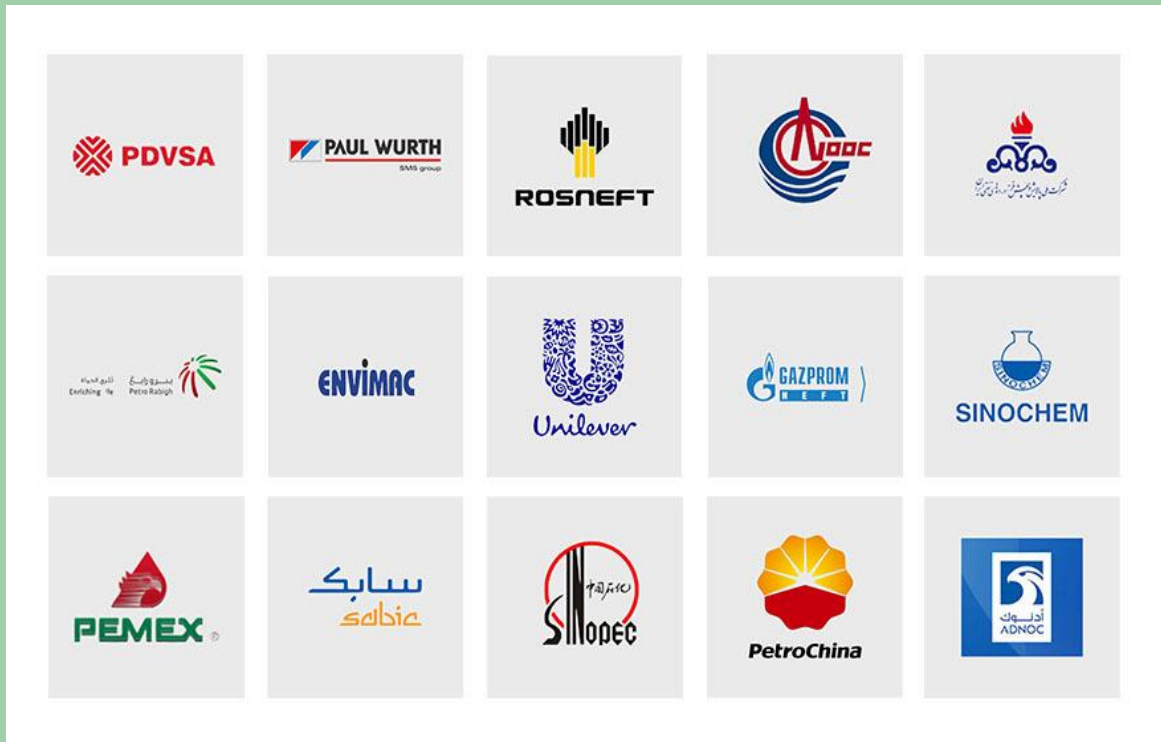
Quality Assurance

Armed with around 30 years of solid industry experience, advanced technologies of catalysts / adsorbents / bed support media, and the on-going solution progress, we are poised to help for your distilled yield improvement, oil / plastic production enhancement, and output quality optimization.

ISO 9001
ISO 14001
OHSAS 18001



Who Are Using



Registered supplier to
Sinopec
PetroChina
and
ADNOC...

Category



DEHYDRATION ADSORBENT

MOLECULAR SIEVES
ACTIVATED ALUMINA
ACTIVATED CARBON
SILICA GEL
SILICA ALUMINA GEL



SPECIALTY ADSORBENT

SPECIALTY ZEOLITE
SPECIALTY ALUMINA
SPECIALTY CARBON
SPECIALTY SILICA
SPECIALTY CLAY



BED GRADING & SUPPORT

INERT CERAMIC BALL
INERT ALUMINA BALL
ACTIVE BED SUPPORT
BED TOPPING & GRADING



SYNGAS/H2-PURIFICATION & CATALYST

HYDRODESULFURIZATION
DESULFURIZATION
CHLORIDE GUARD
PRE-REFORMING
STEAM REFORMING
HIGH/MEDIUM TEMP CO SHIFT
LOW TEMP CO SHIFT
METHANATION
PSA H2 PURIFICATION



PURIFICATION

SULFUR REMOVAL
CHLORIDE & HALOGEN REMOVAL
ARSINE & PHOSPHINE REMOVAL
MERCURY REMOVAL
REDUCING GAS REMOVAL
OXYGEN REMOVAL
ETHYLENE & PROPYLENE PURIFICATION
PDH/PROPANE FEED GUARD



CATALYST

REFINERY

FLUID CATALYTIC CRACKING
CATALYTIC REFORMING
HYDROTREATING
SULFUR RECOVERY

PETROCHEMICAL

MTBE/TAME SYNTHESIS
ETHYLENE OXYCHLORINATION
POLYMERIZATION

COAL CHEMICAL

FISCHER-TROPSCH

BASIC CHEMICAL

METHANOL SYNTHESIS
FORMOX & DME
SULFURIC ACID

AMMONIA SYNTHESIS

PHARMACEUTICAL CHEMICALS

MORPHOLINE SYNTHESIS



EMISSION CONTROL

VOC TREATMENT
NOx TREATMENT

Product List

Dehydration Adsorbent

Product Code	Materials	Application	Shape
DehySorb Z3S	K+	Drying natural gas, ethanol and reactive monomers	Sphere
DehySorb Z3P	K+	Drying natural gas, ethanol and reactive monomers	Pellet
DehySorb Z4S	Na+	Used as a general purpose drying agent in polar & non-polar feeds	Sphere
DehySorb Z4P	Na+	Used as a general purpose drying agent in polar & non-polar feeds	Pellet
DehySorb Z5S	Ca+	Removing CO ₂ , CO, H ₂ S and other weakly polar molecules, PSA	Sphere
DehySorb Z5P	Ca+	Removing CO ₂ , CO, H ₂ S and other weakly polar molecules, PSA	Pellet
DehySorb Z10S	Na+	Air plant feed purification, H ₂ O, CO ₂ , H ₂ S, mercaptan removal	Sphere
DehySorb Z10P	Na+	Air plant feed purification, H ₂ O, CO ₂ , H ₂ S, mercaptan removal	Pellet
DehySorb AG1	Alumina	Drying air, gas, liquid feed	Sphere
DehySorb AG2	Alumina	Dust free desiccant for air, gas, liquid feed	Sphere
DehySorb SGA	Silica gel	Fine Pore Silica gel for drying / A Type	Sphere
DehySorb FNG	Silica gel	FNG Silica gel for drying	Sphere
DehySorb OG	Silica gel	Indicating silica gel, orange to green	Sphere
DehySorb BR	Silica gel	Indicating silica gel, blue to red	Sphere
DehySorb H	Si/Al gel	Silica alumina gel for drying	Sphere
DehySorb WS	Si/Al gel	Silica alumina gel for drying, water resistant type	Sphere

Specialty Adsorbent

Product Code	Materials	Application	Shape
PuriSorb OX901	Zeolite	Mecial oxygen purification by VPSA process	Sphere
PuriSorb OX905	Zeolite	Mecial oxygen purification by PSA process	Sphere
PuriSorb Z3S	Zeolite	Ethylene and propylene dehydration	Sphere
PuriSorb Z3P	Zeolite	Ethylene and propylene dehydration	Pellet
PuriSorb Z5S	Zeolite	Removal of H ₂ O, CO ₂ , H ₂ S, CO, N ₂ , mercaptans from natural gas & other HC	Sphere
PuriSorb Z10S	Zeolite	Removal of moisture, polar oxygenates and sulfur compounds from gas & liquid HC	Sphere
PuriSorb AG7S	Alumina	Standard hydrogen peroxide grade activated alumina adsorbents	Sphere
PuriSorb AG70S	Alumina	High Performance hydrogen peroxide grade activated alumina adsorbents	Sphere
PuriSorb AG70G	Alumina	High Performance hydrogen peroxide grade activated alumina adsorbents	Granule
PuriSorb PE	Alumina	HDPE purification processing	Sphere
PuriSorb AA20	Alumina	Remove impurities from styrene (such as benzoic acid, phenol, Benzaldehyde, etc)	Sphere
PuriSorb AA30	Alumina	Remove impurities from styrene (such as benzoic acid, phenol, Benzaldehyde, etc)	Sphere
PuriSorb SM-2	Alumina	TBC removal from monomer, PS, styrene	Sphere
PuriSorb DF200	Alumina	Removing free HF and organic fluorides	Sphere
PuriSorb DFX200	Alumina	Removing free HF and organic fluorides, higher HF capacity	Sphere
PuriSorb SD	Proprietary	Regenerative adsorbent fo removal of acid gases & water (H ₂ O,H ₂ S,COS,CS ₂ ,CO ₂)	Sphere
PuriSorb SA	Proprietary	Regenerative adsorbent fo removal of acid gases (H ₂ S,COS,CS ₂ ,CO ₂)	Sphere
PuriSorb AX600	Proprietary	Regenerative adsorbent for removal of polar compounds & oxygenated hydrocarbon	Sphere
PuriSorb AX700	Proprietary	Regenerative adsorbent for removal of polar compounds & oxygenated hydrocarbon	Sphere
PuriSorb DO	Alumina	DME Removal	Sphere
PuriSorb DOX	Proprietary	DME Removal	Extrudate
PuriSorb AC5	Carbon	Activated carbon for PSA to remove the impurities CO ₂ , CO, N ₂ , hydrocarbon	Extrudate

Product List

Specialty Adsorbent

Product Code	Materials	Application	Shape
PuriSorb AC6	Carbon	Activated carbon for odor removal	Extrudate
PuriSorb AC15	Carbon	Activated carbon for solvent recovery	Extrudate
PuriSorb CMR8	Carbon	Activated carbon for mercury(Hg) removal	Extrudate
PuriSorb CSR10G	CuO/AC	Impregnated activated carbon for sulfur removal	Granule
PuriSorb CSR10E	CuO/AC	Impregnated activated carbon for sulfur removal	Extrudate
PuriSorb CMS	CMS	Carbon molecular sieves for nitrogen generator	Extrudate
PuriSorb HC	Si/Al gel	Silica alumina gel for Hydrocarbon Removal from Natural Gas	Sphere
PuriSorb ACF25	Acti.Clay	Nitrogen compounds and olefins reduction from aromatics via chemisorption & catalysis	Granule
PuriSorb ACF25X	Acti.Clay	Nitrogen compounds and olefins reduction from aromatics via chemisorption & catalysis	Granule
PuriSorb ACF120	Acti.Clay	Polar contaminants removal & color reduction via chemisorption & catalysis	Granule
PuriSorb ACF124	Acti.Clay	Olefins removal from aromatics	Granule
DehySorb FNG	Silica gel	FNG Silica gel for drying	Sphere
DehySorb OG	Silica gel	Indicating silica gel, orange to green	Sphere
DehySorb BR	Silica gel	Indicating silica gel, blue to red	Sphere
DehySorb H	Si/Al gel	Silica alumina gel for drying	Sphere
DehySorb WS	Si/Al gel	Silica alumina gel for drying, water resistant type	Sphere

Bed Topping, Grading, Support

Product Code	Materials	Application	Shape
DuraTop ICT-11	Ceramic	7 hole domed tablet, high void inert topping media	Tablet
DuraTop ICT-22	Ceramic	5 hole medal, high void inert topping media for flow distribution	Medal
DuraTop ICT-55	Ceramic	High void hold down material improved for flow distribution	Medal
DuraTop ICT-66	Ceramic	Inert topping for pressure drop relief&distribution optimization	Fluted Ring
DuraTop ICT-99	Ceramic	Inert grading for pressure drop relief&distribution optimization	Hollow Ring
DuraTop GA	Alumina	Inert topping/support for pressure drop relief&distribution optimization	Geared Ring
PuriTrap ADM	Alumina	Mini and ultra minis filtration disks for distribution optimization	Honeycomb
PuriTrap CFS	Alumina	Ceramic foam discs to filter fouling particles, 10/30/50/65/80/100 PPI	Foam Disc
PuriTrap MFR-77	Alumina	Macro porous inert topping media to filter fouling particles	Fluted Ring
PuriTrap MHR-80	Alumina	Macro porous inert topping media to filter fouling particles	Hollow Ring
PuriTrap MHR-81	NiMo	Macro porous inert topping media to filter fouling particles	Hollow Ring
PuriTrap NM	Alumina	Hollow ring grading media to reduce the rate of fouling	Hollow Ring
AcTrap ABS-88	NiMo	NiMo impregnated active bed support media	Sphere
AcTrap NR	NiMo	NiMo impregnated active grading media to reduce the rate of fouling	Hollow Ring
AcTrap As-48	NiMo	Very high surface NiMo ring for arsine trapping of hydrotreators	Trilobe
AcTrap As-48	NiMo	Very high surface NiMo ring for arsine trapping of hydrotreators	Hollow Ring
AcTrap Si-48	Alumina	Very high surface NiMo ring for silica trapping of hydrotreators	Trilobe
AcTrap Si-88	NiMo	Very high surface NiMo trilobe for silica trapping of hydrotreators	Trilobe
Ceramax ICB-17	Ceramic	Catalyst bed support, Al ₂ O ₃ : 15 - 19wt%, Al ₂ O ₃ +SiO ₂ : 92wt%	Sphere
Ceramax ICB-23	Ceramic	Catalyst bed support, Al ₂ O ₃ : 19 - 30wt%, Al ₂ O ₃ +SiO ₂ : 95wt%	Sphere
Ceramax ICB-40	Ceramic	Catalyst bed support, Al ₂ O ₃ : 35 - 45wt%, Al ₂ O ₃ +SiO ₂ : 95wt%	Sphere
Alumax ASB-90	Alumina	Catalyst bed support, Al ₂ O ₃ : 90.0wt%, high operation temperature	Sphere

Product List

Bed Topping, Grading, Support

Product Code	Materials	Application	Shape
Alumax ASB-99	Alumina	Catalyst bed support, Al ₂ O ₃ : 99.0wt%, high operation temperature	Sphere
Alumax ASB-99S	Alumina	Catalyst bed support, Al ₂ O ₃ : 99.5wt%, ultra low silica - SiO ₂	Sphere
Actrap AA-S1	Alumina	Active catalyst bed support, higher conversion rate for SRU	Sphere

Purification Adsorbents

Sulfur Removal, Sulfur Guard

Product Code	Materials	Application	Shape
PuriSorb ZS-60	ZnO/Mn	H ₂ S & COS removal for gas & liquid at ambient temp - 220 deg C	Extrudate
PuriSorb T-90S	ZnO	H ₂ S & COS removal at high temp, 300 - 440 deg C	Sphere
PuriSorb T-90E	ZnO	H ₂ S & COS removal at high temp, 300 - 440 deg C	Extrudate
PuriSorb T-99S	ZnO	H ₂ S & COS removal at high temp, 300 - 440 deg C	Extrudate
PuriSorb T-99E	ZnO	H ₂ S & COS removal at high temp, 300 - 440 deg C	Extrudate
PuriSorb T-FE-1	Fe ₂ O ₃	H ₂ S removal from natural gas, CO ₂ gas at ambient temp	Extrudate
PuriSorb SS-10G	Fe(OH) ₃	H ₂ S removal from natural gas, CO ₂ gas at ambient temp	Granular
PuriSorb SS-10E	Fe(OH) ₃	H ₂ S removal from natural gas, CO ₂ gas at ambient temp	Extrudate
PuriSorb SS-25G	Fe(OH) ₃	H ₂ S removal from natural gas, CO ₂ gas at ambient temp	Granular
PuriSorb SS-25E	Fe(OH) ₃	H ₂ S removal from natural gas, CO ₂ gas at ambient temp	Extrudate
PuriSorb MSR-75	MnO	H ₂ S, RSH, COS removal at 280-400 deg C	Granular
PuriSorb MSR-85	MnO	H ₂ S, RSH, COS removal at 280-400 deg C	Extrudate
PuriSorb ASR-20	Metal oxide	Sulfur, arsine, phosphine removal at	Sphere
PuriSorb CSR-10E	CuO/AC	Bulk sulfur species removal like H ₂ S, ambient - 80 deg C	Extrudate
PuriSorb NS-75	NiO	Sulfurs & thiophenes in heavy HC at temp < 200 deg C	Extrudate
PuriSorb NS-78	NiO	Sulfurs & thiophenes in heavy HC at temp < 200 deg C	Extrudate
PuriSorb NCS	NiO, CuO	Sulfurs & thiophenes in heavy HC at temp < 200 deg C	Extrudate
PuriSorb CS-12E	CuO, ZnO	H ₂ S, mercaptan, organic sulphides from liquid phase, 80 - 200 deg C	Extrudate
PuriSorb CS-12T	CuO, ZnO	H ₂ S, mercaptan, organic sulphides from liquid phase, 80 - 200 deg C	Tablet
PuriSorb CS-15T	CuO, ZnO	H ₂ S, mercaptan, organic sulphides from liquid phase, 80 - 200 deg C	Tablet

Purification Adsorbents

Chloride & Halogen Removal, Chloride Guard

Product Code	Materials	Application	Shape
PuriSorb CR-Z10	Zeolite	Organic chloride and HCl removal from various vapour and liquid streams	Sphere
PuriSorb CR-Z30	Metal oxide	Very high chloride capacity, HCl removal from various vapour and liquid streams	Extrudate
PuriSorb CR-C30	Metal oxide	Organic chloride and HCl removal from various vapour and liquid streams	Extrudate
PuriSorb CCR 200	Metal oxide	Very high HCl capacity, ambient - 200 deg C	Extrudate
PuriSorb CCR 300	CaO	Very high HCl capacity, ambient - 400 deg C	Extrudate
PuriSorb ACL 805	Alumina	Standard HCl adsorbent, ambient - 380 deg C	Sphere
PuriSorb ACL 810	Alumina	Standard HCl adsorbent, ambient - 380 deg C	Sphere
PuriSorb ACL 815	Alumina	High HCl capacity, ambient - 380 deg C	Sphere
PuriSorb NCR-50	NiO	RCl removal from liquid HC feeds, ambient - 200 deg C	Extrudate
PuriSorb OCR 400	CuO	RCl removal from liquid HC feeds, ambient - 200 deg C	Extrudate

Product List

Purification Adsorbents

Arsine & Phosphine Removal, Arsine Guard

Product Code	Materials	Application	Shape
PuriSorb ASR-12E	CuO, ZnO	Sulfur, arsine and phosphine removal from HC, ambient - 200 deg C	Extrudate
PuriSorb ASR-12T	CuO, ZnO	Sulfur, arsine and phosphine removal from HC, ambient - 200 deg C	Tablet
PuriSorb ASR-22E	CuO, ZnO	Removal of traces of As, P, S, CO and O2 from gas & HC	Extrudate
PuriSorb ASR-22T	CuO, ZnO	Removal of traces of As, P, S, CO and O2 from gas & HC	Tablet
PuriSorb LAS-20	PbO/Al2O3	Arsine, sulfur (H2S, COS & light mercaptans) & mercury from various vapour	Sphere

Purification Adsorbents

Mercury Removal, Mercury Guard

Product Code	Materials	Application	Shape
PuriSorb AMR-5	S/Al2O3	High mercury capacity for natural gas, coal gas at ambient temp	Sphere
PuriSorb AMR-8	CuO/Al2O3	High mercury capacity for natural gas, coal gas at ambient temp	Sphere
PuriSorb AMR-9	CuO/Al2O3	High mercury capacity for natural gas, coal gas at ambient temp	Sphere
PuriSorb MR-10	CuO	High mercury capacity for natural gas, coal gas at ambient temp	Extrudate
PuriSorb CMR-8	S/AC	Traces of Hg from gas streams at ambient temp	Extrudate
PuriSorb CMR-10	CuO/S	Traces of Hg from gas streams at ambient temp	Extrudate
PuriSorb AG-3	Ag/Zeolite	Traces of Hg from gas streams at ambient temp	Extrudate
PuriSorb AG-4	Ag/Zeolite	Traces of Hg from gas streams at ambient temp	Extrudate

Purification Adsorbents

Reducing Gas Removal, H2, CO

Product Code	Materials	Application	Shape
PuriSorb CM	CuO	H2, CO removal from gas at ambient	Sphere
PuriSorb DR-03	Pd/Al2O3	Removal of H2/CO from nitrogen, industrial gas at ambient - 500 deg C	Sphere
PuriSorb DR-02	Pd/Al2O3	Removal of H2/CO from nitrogen, industrial gas at ambient - 500 deg C	Trilobe
PuriSorb RR-12E	CuO, ZnO	Removal of H2/CO from nitrogen, industrial gas at ambient - 250 deg C	Extrudate
PuriSorb RR-12T	CuO, ZnO	Removal of H2/CO from nitrogen, industrial gas at ambient - 250 deg C	Tablet

Purification Adsorbents

Oxygen Removal, O2

Product Code	Materials	Application	Shape
PuriSorb DO-03	Pd/Al2O3	Removal of O2 from nitrogen, hydrogen at ambient - 500 deg C	Sphere
PuriSorb DO-02	Pd/Al2O3	Removal of O2 from nitrogen, hydrogen at ambient - 500 deg C	Trilobe
PuriSorb DO-20	CuO/Al2O3	Removal of O2 from ethylene, nitrogen, natural gas, and propylene	Sphere
PuriSorb DO-12E	CuO, ZnO	Removal of traces of As, P, S, CO and O2 from gas & HC	Extrudate
PuriSorb DO-12T	CuO, ZnO	Removal of traces of As, P, S, CO and O2 from gas & HC	Tablet

Purification Adsorbents

COS, CO2, AS, Sulfur Removal for Ethylene, Propylene

Product Code	Materials	Application	Shape
PuriCat COS	Alumina	Promoted alumina for COS hydrolysis from light HC	Sphere

Product List

Catalyst

Reinfernery

Catalytic Refmoring - Continuous Reforming & Semi-Regenerative Reforming

Product Code	Materials	Application	Shape
HyKat CCR-310	Pt/Sn	CCR to produce aromatics and hydrogen or high-octane reformat and hydrogen	Sphere
HyKat CCR-330	Pt/Sn	CCR to produce aromatics and hydrogen or high-octane reformat and hydrogen	Sphere
HyKat AR-C	Pt/Re	High selective, activity, stability for higher octane number gasoline	Extrudate
HyKat AR-D	Pt/Re	High selective, activity, stability for higher octane number gasoline	Extrudate

Isomerization - C5/C6

Product Code	Materials	Application	Shape
HyKat ISO-100	Pt	C5/C6 normal paraffin isomerization, higher activity, longer lifetime	Extrudate

Hydrotreating - Naptha, Diesel, Kerosene, Gasoline, VGO, Lube Oil

Product Code	Materials	Application	Shape
HyKat HN-220	NiMo	Optimized to improve sulfur and nitrogen removal, better HDS&HDN	Extrudate
HyKat HN-320	NiMo	Optimized to improve sulfur and nitrogen removal, better HDS&HDN	Extrudate
HyKat HN-120	NiW	Optimized to improve sulfur and nitrogen removal, better HDS&HDN	Sphere
HyKat HN-120	NiW	Optimized to improve sulfur and nitrogen removal, better HDS&HDN	Extrudate
HyKat HN-130	NiW	Optimized to improve sulfur and nitrogen removal, better HDS&HDN	Extrudate
HyKat HN-140	CoMo	Optimized to improve sulfur and nitrogen removal, better HDS&HDN	Extrudate
HyKat HT-780	CoMo	Optimized to improve sulfur and nitrogen removal, better HDS&HDN	Extrudate
HyKat HT-750	CoMo	Optimized to improve sulfur and nitrogen removal, better HDS&HDN	Extrudate
HyKat HT-775	CoMo	Optimized to improve sulfur and nitrogen removal, better HDS&HDN	Extrudate
HyKat HT-740	CoMo	Optimized to improve sulfur and nitrogen removal, better HDS&HDN	Extrudate
HyKat HT-780	CoMo	Optimized to improve sulfur and nitrogen removal, better HDS&HDN	Extrudate

Sulfur Recovery - Claus, Tail Gas Treatment

Product Code	Materials	Application	Shape
PuriCat PSR-1	Al2O3	Alumina based Claus catalyst, large surface area, large pore volume	Sphere
PuriCat PSR-1L	Al2O3	Alumina based Claus catalyst, lower density, higher surface area, larger pore volume	Sphere
PuriCat PSR-21	Ti/Al2O3	Promoted alumina Claus catalyst, improved COS/CS2 hydrolysis	Sphere
PuriCat PSR-31E	TiO2	Titania based Claus catalyst, very high COS/CS2 hydrolysis rate	Extrudate
PuriCat PSR-31T	TiO2	Titania based Claus catalyst, very high COS/CS2 hydrolysis rate	Trilobe
PuriCat PSR-41	Fe/Al2O3	Promoted alumina catalyst, oxygen scavenger	Sphere
PuriCat PSR-51S	CoMo	Tail gas treatment, maximize the total sulfur conversion to 99.5%	Sphere
PuriCat PSR-51TL	CoMo	Tail gas treatment, maximize the total sulfur conversion to 99.5%	Trilobe
PuriCat PSR-61S	CoMo	Lower temperature tail gas treatment, higher sulfur conversion rate	Sphere
PuriCat PSR-61TL	CoMo	Lower temperature tail gas treatment, higher sulfur conversion rate	Trilobe

Product List

Catalyst

Petrochemical

MTBE/TAME Synthesis

HyKat RS-101	Resin	Organic reactions like alkylation, esterification, etherification, condensation hydrolysis	Bead
PuriSorb ASR-12T	CuO, ZnO	Sulfur, arsine and phosphine removal from HC, ambient - 200 deg C	Tablet
PuriSorb ASR-22E	CuO, ZnO	Removal of traces of As, P, S, CO and O2 from gas & HC	Extrudate
PuriSorb ASR-22T	CuO, ZnO	Removal of traces of As, P, S, CO and O2 from gas & HC	Tablet
PuriSorb LAS-20	PbO/Al2O3	Arsine, sulfur (H2S, COS & light mercaptans) & mercury from various vapour	Sphere

Ethylene Oxychlorination

Product Code	Materials	Application	Shape
HyKat EO-105	Cu	Fluid bed ethylene oxychlorination process, low byproducts	Microsphere
HyKat EO-115	Cu	Fluid bed ethylene oxychlorination process, low byproducts	Microsphere

Polymerization

Product Code	Materials	Application	Shape
HyKat AC-102	Acid	The new generation of solid phosphoric acid catalyst	Pellet

Coal Chemicals

Fischer-Tropsch Process

HyKat FTC-80	Co	Cobalt based Fischer-Tropsch catalyst for low temp, 200 - 240 deg C	Trilobe
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Basic Chemicals

Methanol Synthesis

HyKat SRK-30	Cu/Zn	Combined methanol synthesis, emission convert for ammonia plant	Tablet
HyKat SRK-50	Cu/Zn	Low pressure Cu/Zn methanol synthesis catalyst	Tablet
HyKat C-307	Cu/Zn	Low pressure Cu/Zn methanol synthesis catalyst	Tablet

Formox & DME

HyKat SMF-50	Fe/Mo	Formox process producing formaldehyde by methanol oxidation	Ring
HyKat SDE-13	Al2O3	Gas phase methanol dehydration to produce dimethyl ether	Extrudate
HyKat SDE-13	Al2O3	Gas phase methanol dehydration to produce dimethyl ether	Extrudate

Sulfuric Acid

HyKat SAP-75	V2O5	5-ribbed ring design for high activity, high SO2 conversion	Ring
HyKat SAP-78	V2O5	5-ribbed ring design for high activity, high SO2 conversion	Ring
HyKat SAP-80	V2O5	5-ribbed ring design for high activity, high SO2 conversion	Ring
HyKat SAP-VC30	Cs/V2O5	5-ribbed ring design for high SO2 conversion, low SO2 emission	Ring
HyKat SAP-VC50	Cs/V2O5	5-ribbed ring design for high SO2 conversion, low SO2 emission	Ring
HyKat SAP-VC70	Cs/V2O5	5-ribbed ring design for high SO2 conversion, low SO2 emission	Ring
HyKat VK-10W	V2O5	7-ribbed ring design for high activity, high SO2 conversion for WSA/WSA-DC	Ring
HyKat VSX-8W	Cs/V2O5	7-ribbed ring design for high SO2 conversion, low SO2 emission for WSA/WSA-DC	Ring
HyKat VSX-16W	Cs/V2O5	7-ribbed ring design for high SO2 conversion, low SO2 emission for WSA/WSA-DC	Ring

Product List

Catalyst

Pharmaceutical Chemicals

Morpholine Synthesis

HyKat SML-50	Ni/Cu	Morpholine synthesis	Trilobe
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Catalyst

Basic Chemicals

Ammonia Synthesis

HyKat A202	Fe/Co	Convert synthesis gas containing hydrogen and nitrogen into ammonia	Granule
HyKat A202R	Fe/Co	Convert synthesis gas containing hydrogen and nitrogen into ammonia	Granule

Catalyst

SynGas/H₂

Hydrodesulfurization

HyKat S-100	CoMo	Unsaturated olefin, organic sulfur hydro-conversion	Trilobe
HyKat S-101	CoMo	Unsaturated olefin, organic sulfur hydro-conversion	Hollow ring
HyKat S-102	CoMo	Unsaturated olefin, organic sulfur hydro-conversion	Trilobe
HyKat S-103	NiCoMo	Unsaturated olefin, organic sulfur hydro-conversion	Trilobe
HyKat S-104	NiMo	Unsaturated olefin, organic sulfur hydro-conversion	Quadralob

Desulfurization

PuriSorb T-90E	ZnO	H ₂ S & COS removal at high temp, 300 - 440 deg C	Extrudate
PuriSorb T-90S	ZnO	H ₂ S & COS removal at high temp, 300 - 440 deg C	Sphere
PuriSorb T-99E	ZnO	H ₂ S & COS removal at high temp, 300 - 440 deg C	Extrudate

Steam Reforming

HyKat SPR-50	NiO	High nickel, high activity pre-reforming catalyst for hydrocarbon	Tablet
HyKat SR-212	NiO	Primary reforming process for natural gas, coke oven gas and other syngas	4 Holes
HyKat SR-213	NiO	Primary reforming process for natural gas, coke oven gas and other syngas	4 Holes
HyKat SR-201K	NiO	Nickel based steam reforming catalyst for upper section	4 Holes
HyKat SR-202K	NiO	Nickel based steam reforming catalyst for bottom section	4 Holes
HyKat SR-301K	NiO	Alkali promoted Nickel based steam reforming catalyst for upper	4 Holes
HyKat SR-302K	NiO	Nickel based steam reforming catalyst for bottom	4 Holes
HyKat SR-217	NiO	Alkali promoted Nickel based steam reforming catalyst for upper	4 Holes
HyKat SR-218	NiO	Nickel based steam reforming catalyst for bottom	4 Holes
HyKat SR-D37	NiO	Ni-based high active catalyst supported on alumina loaded at the top of the tube	6 Holes
HyKat SR-D38	NiO	Ni-based semi-active catalyst supported on magnesium oxide loaded at the middle	6 Holes
HyKat SR-D39	NiO	Inert alumina raschig ring loaded at the bottom of the tube	Ring

CO Shift

HyKat ST205	Cu/Zn	Low temperature CO shift catalyst	Tablet
HyKat ST217	Fe/Cr	Nickel based steam reforming catalyst for upper section	Tablet
HyKat ST213	Fe/Cr	Nickel based steam reforming catalyst for upper section	Tablet

Product List

Catalyst

SynGas/H₂

Methanation

HyKat MJ103S	Ni	Nickel based methanation catalyst	Sphere
HyKat MJ113S	Ni	Nickel based methanation catalyst	Sphere
HyKat MJ103T	Ni	Nickel based methanation catalyst	Tablet
HyKat MJ113T	Ni	Nickel based methanation catalyst	Tablet

PSA H₂ Purification

PuriSorb AA30	Alumina	High surface PSA grade activated alumina desiccant	Sphere
PuriSorb SGP	Silica gel	PSA grade silica gel desiccant	Sphere
PuriSorb AC5	Carbon	Coconut based PSA grade activated carbon, bulk CO ₂ adsorption	Extrudate
PuriSorb HAC-15E	Carbon	Coconut based PSA grade activated carbon, bulk CO ₂ adsorption	Extrudate
PuriSorb Z5A-16H	Ca+	PSA grade 5A molecular sieve	Sphere
PuriSorb 5A	Ca+	PSA grade 5A molecular sieve	Pellet

Emission Control

EnvCat VOC-20	Pd/Al ₂ O ₃	Catalytic combustion of volatile organic compounds (VOCs)	Sphere
EnvCat VOC-21	Pt/Al ₂ O ₃	Catalytic combustion of volatile organic compounds (VOCs)	Sphere
EnvCat DN-V16	V ₂ O ₅	Medium temperature NO _x selective catalytic reduction	Cylinder
EnvCat DN-V18	V ₂ O ₅ /TiO ₂	Low temperature NO _x selective catalytic reduction	Cylinder

Contact us

Chempack offers technologies, products, services and equipment to energy and chemical industries.



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