

DefendAL®



Heavy Duty Pre-Charged Antifreeze/Coolant

DefendAL® Heavy Duty Pre-Charged Antifreeze/Coolant is a premium quality conventional technology, virgin ethylene glycol-based fluid. Specially formulated with additive technology designed to protect heavy duty engines, this product provides protection without an initial charge of SCAs. Meets conventional coolant requirements of most industry-leading OEMs.

- No initial charge of SCAs required - use DefendAL SCA to maintain fluid at recommended maintenance intervals
- Phosphate-free with low silicate
- Meets or exceeds: ASTM D3306, ASTM D6210, TMC RP329
- Service life of 300,000 miles | 6,000 hours of offroad use*

**Fluid must be maintained using DefendAL SCA approximately every 30,000 miles. Consult your vehicle's owner's manual for recommendations.*

DefendAL® Heavy Duty Pre-Charged Antifreeze/Coolant is your cooling system's best defense.

- Contains nitrites for superior wet sleeve liner cavitation protection
- Provides maximum freeze and boil-over protection
- Corrosion protection for steel, solder, copper, iron, brass and aluminum
- High-quality defoamer system, non-harmful to hoses, plastics or gaskets
- Compatible with all major American brands of conventional coolants
- Ideal for older Cummins, Detroit Diesel, Navistar, John Deere, or mixed fleets - see list of specifications for additional applications

Available in:

Concentrate

Bulk #10225
Totes #10223
Drums #10230
Cases #11161

50/50 Premix

Bulk #10240
Totes #10235
Drums #10245
Cases #11162



a Recochem Company

DefendAL® Heavy Duty Pre-Charged Antifreeze/Coolant

| Technical Information | Concentrate | 50/50 |
|-------------------------------------|-----------------|-----------------|
| Fluid Color | Fuchsia | Fuchsia |
| Density @ 68°F, lb/gal | 9.3 | 8.9 |
| pH (50v% solution) | 10.5 | 10.5 |
| Maintenance Interval, miles (hours) | 30,000 (600) | 30,000 (600) |
| Coolant Lifetime, miles (hours) | 300,000 (6,000) | 300,000 (6,000) |

| FREEZE/BOIL PROTECTION CHART | % Cooling System Capacity | PROTECTION FROM | |
|------------------------------|---------------------------|------------------|----------------------------|
| | | Freezing Down To | Boiling Up To ¹ |
| | 40 | -13° F | +260° F |
| | 50 | -34° F | +265° F |
| | 60 | -62° F | +270° F |

¹Using a 15psi pressure cap

| Shipping Information | Cases | Steel Drums | Totes |
|--------------------------------------|---------------------|-------------------|-----------------|
| Package Quantity | 3x1 Gallons | 55 Gallons | 275 Gallons |
| Package Dimensions | 12.75" x 7.8" x 12" | 23.5"D x 34.5"H | 40" x 48" x 53" |
| Gross Container Weight - Concentrate | ≈30 Pounds | ≈550 Pounds | ≈2703 Pounds |
| Gross Container Weight - 50/50 | ≈29 Pounds | ≈528 Pounds | ≈2594 Pounds |
| Gross Weight on Pallet - Concentrate | ≈2197 Pounds | ≈2262 Pounds | ≈2703 Pounds |
| Gross Weight on Pallet - 50/50 | ≈2110 Pounds | ≈2174 Pounds | ≈2594 Pounds |
| Quantity Per Pallet | 72 | 4 | 1 |
| Pallet Dimensions | 40" x 48" x 54.5" | 48" x 48" x 39.4" | 40" x 48" x 53" |
| Product Part Number - Concentrate | 11161 | 10230 | 10223 |
| Product Part Number - 50/50 | 11162 | 10245 | 10235 |
| UPC Code - Concentrate | 652138268526 | 652138100659 | 652138100666 |
| UPC Code - 50/50 | 652138268533 | 652138100673 | 652138100680 |
| UPC Case Code - Concentrate | 652138101182 | N/A | N/A |
| UPC Case Code - 50/50 | 652138101199 | N/A | N/A |
| Weight Per Gallon - Concentrate | ≈9.3 Pounds | ≈9.3 Pounds | ≈9.3 Pounds |
| Weight Per Gallon - 50/50 | ≈9 Pounds | ≈9 Pounds | ≈9 Pounds |

⚠ WARNING: REPRODUCTIVE HARM - WWW.P65WARNINGS.CA.GOV

DefendAL® Heavy Duty Pre-Charged

Recommended for use in:

ASTM D3306
ASTM D6210
BS 6580:2010
Buhler Versatile 86050054
CAT DEAC
CAT EC-1

CID-A-52624A
CNH MAT 3620 EG3, EG4
Cummins CES 14439
Cummins CES 14603
Daimler DBL 7700
Detroit Diesel 7SE298

Deutz H 0685-6: Class DQC CA-14
Ford ESE-M97B18-C
JCB STD00088
John Deere JDM H24A1, A2
MAN 324 Type N
MWM Deutz TR0199-99-2091

Navistar CEMS B-1 Type II
Navistar MPAPS MPAPS B-1 Type II
Perkins (CAT) SEBU7833-03
TMC RP 329
Volvo Coolant Requirements: Volvo Trucks

Always consult your vehicle's owner's manual for proper fluid removal and flushing procedures.



KOST USA, Inc. recommends to always properly dispose of spent coolant. Contact your state or local municipality for instructions on proper disposal to protect our environment. If a coolant spill occurs, call local authorities and ask for proper instruction on how to clean up the spill.



KOST® USA, Inc. is the Largest Family-Owned Manufacturer, Supplier and Marketer of Antifreeze, Glycols, and Functional Fluids in the United States. Founded in 1985, we are Headquartered in Cincinnati, OH. We Proudly Build our Customers Private Label Brands and our Oil & Gas brands through High-Performance Products and Superior Service, Primarily in the Automotive & Heavy Duty Aftermarket, as well as in the Oil & Gas Sector.

1-800-661-9391 | kostusa.com

