

DefendAL®



Heavy Duty Extended Life Antifreeze/Coolant

DefendAL® Heavy Duty Extended Life Antifreeze/Coolant is a premium quality Nitrited Organic Acid Technology (NOAT) virgin ethylene glycol-based fluid. Specially formulated with industry-leading additives, this product provides extended service maintenance protection in engines requiring a heavy duty NOAT coolant.

- 2-EH free - safe for silicone seals
- Ideal for CAT or mixed fleets - see specifications for additional applications
- Cost of ownership 56% LESS than heavy duty conventional antifreeze*
- Meets ASTM D6210, ASTM D3306 and TMC RP329, additional specifications on the back

**Based on typical fluid prices, recommended maintenance practices, and average labor costs*

DefendAL® HD Extended Life Antifreeze/Coolant is your cooling system's best defense.

- Extended service life of 1,000,000 miles on-road / 8 years or 20,000 hours off-road use*
- Meets CAT EC-1 requirements
- Free of 2-ethylhexanoic acid (2-EH), phosphates, silicates and amines
- Provides freeze and boil-over protection
- No addition of SCAs required*
- Offers excellent wet sleeve liner cavitation protection, with a nitrite and molybdate additive combination
- Contains better heat transfer properties than conventional coolants requiring SCAs
- Extended life corrosion protection for aluminum and all other engine metals
- High-quality defoamer system, non-harmful to hoses, plastics or gaskets
- Compatible with most major American brands of extended life Organic Acid Technology type antifreeze/coolants

**DefendAL NOAT Extender may be needed based on test results. Consult your vehicle's owner's manual for recommendations.*

KOSTUSA
a Recochem Company

DefendAL[®] Heavy Duty Extended Life Antifreeze/Coolant

Technical Information	Concentrate	50/50
Fluid Color	Red	Red
Density @ 68°F, lb/gal	9.3	8.9
pH (50v% solution)	8.1	8.1
Maintenance Interval, miles (hours)	300,000 (6,000)	300,000 (6,000)
Coolant Lifetime, miles (hours)	1,000,000 (20,000)	1,000,000 (20,000)

FREEZE/BOIL PROTECTION CHART <small>[†]Using a 15psi pressure cap</small>	% Cooling System Capacity	PROTECTION FROM	
		Freezing Down To	Boiling Up To [‡]
	40	-13° F	+260° F
	50	-34° F	+265° F
	60	-62° F	+270° F

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" x 34.5"	40" x 48" x 46"
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	≈2209 Pounds	≈2262 Pounds	N/A
Gross Weight on Pallet - 50/50	≈2123 Pounds	≈2174 Pounds	N/A
Quantity Per Pallet	72	4	1
Pallet Dimensions	40" x 48" x 54.5"	48" x 48" x 39.4"	40" x 48" x 46"
Product Part Number - Concentrate	11157	10263	10260
Product Part Number - 50/50	11158	10280	10277
UPC Code - Concentrate	652138903397	652138100550	652138100567
UPC Code - 50/50	652138903694	652138100574	652138100581
UPC Case Code - Concentrate	652138101144	N/A	N/A
UPC Case Code - 50/50	652138101151	N/A	N/A
Weight Per Gallon - Concentrate	≈9.5 Pounds	≈9.5 Pounds	≈9.5 Pounds
Weight Per Gallon - 50/50	≈9 Pounds	≈9 Pounds	≈9 Pounds

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

DefendAL[®] HD Extended Life

Recommended for use in:

ASTM D3306
ASTM D6210
BS 6580:2010
CAT EC-1
CID-A-52624A
CNH MAT 3620 EG3, EG4

Cummins CES 14439
Cummins CES 14603
Daimler DBL 7700
JCB STD00088
John Deere JDM H24A
MAN 324 Type N

MTU 5048
MWM Deutz TR0199-99-1115
MWM Deutz TR0199-99-2091
Navistar CEMS B-1 Type III
Perkins (CAT) SEBU7833-03

TMC RP 329
TMC RP 338A
Volvo Coolant VCS
Waukesha 4-2429H

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 is the Largest Family-Founded Manufacturer, Supplier, and Marketer of Antifreeze, Glycols, and Functional Fluids in the United States. Founded in 1985 and Headquartered in Cincinnati, OH. We Proudly Build our Customer's Private Label Brands and our Oil & Gas brands through High-Performance Products and Superior Service. Our business is primarily in the Automotive & Heavy-Duty Aftermarket.

1-800-661-9391 | kostusa.com

