

DefendAL



Heavy Duty Nitrite Free Extended Life Antifreeze/Coolant

DefendAL® Heavy Duty Nitrite-Free Extended Life Antifreeze/Coolant is a premium Organic Acid Technology (OAT) formula. This virgin ethylene glycol-based fluid is specially formulated with advanced additive technology, and provides extended service maintenance protection in heavy duty applications without the addition of SCAs. It also meets the nitrite-free coolant requirements of many industry-leading OEMs.

- No addition of SCAs required
- Provides up to 1,000,000 miles or 20,000 hours of protection*
- Great for mixed fleets - approved for use in heavy duty and light duty engines.
- Meets or exceeds ASTM D6210. Ideal for CAT EC-1, Cummins, Detroit Diesel, Navistar, or mixed fleets, additional specifications on the back
- Cost of ownership 68% LESS than heavy duty conventional antifreeze/coolant**

*With proper maintenance. Consult your vehicle's owner's manual for recommendations. **Based on typical fluid prices and labor costs and recommended maintenance practices

DefendAL® For Heavy Duty Nitrite Free Extended Life Antifreeze/Coolant is your cooling system's best defense.

- Extended service life of 1,000,000 miles, 8 years or 20,000 hours of off road use.
- Free of phosphates, silicates, nitrites, amines, and borates
- Offers excellent wet sleeve liner cavitation protection
- 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 Organic Acid Technology coolants

Recommended test interval is 300,000 miles/6,000 hours/1 year. Proper inhibitor levels can typically be achieved by topping off with DefendAL HD NF. Consult your vehicle's owner's manual for recommendations.

Available in:

Concentrate

Bulk #N/A
Totes #11490
Drums #11489
Cases #11519

50/50 Premix

Bulk #N/A
Totes #11492
Drums #11491
Cases #11520



DefendAL[®] Heavy Duty Nitrite Free Extended Life Antifreeze/Coolant

Technical Information	Concentrate	50/50
Fluid Color	Red	Red
Density @ 68°F, lb/gal	9.5	9.0
pH (50v% solution)	8.6	8.6
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)

*Can typically be maintained through routine top off. Recommended coolant check every 300,000 miles.

FREEZE/BOIL PROTECTION CHART <small>*Using a 15 psi 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	3 x 1 Gallons	55 Gallons	275 Gallons
Package Dimensions	12.75" x 7.8" x 12"	23.5" x 34.5"	45.3" x 40" x 48"
Gross Container Weight - Concentrate	≈30 Pounds	≈557 Pounds	≈2739 Pounds
Gross Container Weight - 50/50	≈29 Pounds	≈533 Pounds	≈2621 Pounds
Gross Weight on Pallet - Concentrate	≈2237 Pounds	≈2290 Pounds	N/A
Gross Weight on Pallet - 50/50	≈2144 Pounds	≈2196 Pounds	N/A
Quantity Per Pallet	72	4	1
Pallet Dimensions	40" x 48" x 54.5"	45" x 45" x 39.4"	40" x 48" x 46"
Product Part Number - Concentrate	11519	11489	11490
Product Part Number - 50/50	11520	11491	11492
UPC Code - Concentrate	652138102967	652138102974	652138102998
UPC Code - 50/50	652138103247	652138103001	652138103025
UPC Case Code - Concentrate	652138102981	N/A	N/A
UPC Case Code - 50/50	652138103018	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.

Heavy Duty Nitrite Free Extended Life

Specifications:

ASTM D3306
ASTM D6210
BS 6580:2010
CAT EC-1
CID-A-52624A
CNH MAT 3620 Grade EG3/EG4
CNH MAT 3624

Cummins CES 14603
Daimler DBL 7700.30
Detroit Diesel 93K217
Detroit Diesel 7SE298
Deutz H 0685-7: Class DQC CB-14
GE Jenbacher 1000-201

John Deere JDM H24C
John Deere JDS-G135
Komatsu KES 07 892
MAN 324 Type SNF
MB BB00.40-P-0310-01A, 325.3/326.3
MTU MTL 5048

MWM Deutz TR0199-99-1115
MWM Deutz TR0199-99-2091
Navistar MPAPS B-1 Type IIIA
TMC RP 338A
Volvo Coolant VCS: 20774185
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, 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

