

## **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 safe 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. 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.

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

- New formula provides approximately 50% better cavitation performance!
- Free of phosphates, silicates, nitrites, amines, and borates
- Offers improved wet sleeve liner cavitation protection
- Extended life corrosion protection for aluminum and all other cooling system metals
- High quality defoamer system, non-harmful to hoses, plastics or gaskets
- Compatible with most major brands of Organic Acid Technology coolants

#### Available in:

#### **Concentrate**

Bulk #12855 Totes #11490 Drums #11489 Cases #11519

#### **50/50 Premix**

Bulk #12857 Totes #11492 Drums #11491 Cases #11520

#### **40/60 Premix**

Bulk #12983



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### DefendAL® Heavy Duty Nitrite Free Extended Life Antifreeze/Coolant

<b>Technical Information</b>	Concentrate	50/50	
Fluid Color	Red	Red	
Density @ 68°F, lb/gal	9.3	8.9	
pH (50v% solution)	8.3	8.3	
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)	

<sup>\*</sup>Can typically be maintained through routine top off. Recommended coolant check every 300,000 miles.

FREEZE/BOIL	% Cooling System Capacity	PROTECTION FROM Freezing Down To Boiling Up To‡	
PROTECTION	40	-13° F	+260° F
CHART	50	-34° F	+265° F
‡Using a 15 psi pressure cap	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"	40" x 48" x 46"
Gross Container Weight - Concentrate	≈30 Pounds	≈550 Pounds	≈2705 Pounds
Gross Container Weight - 50/50	≈29 Pounds	≈528 Pounds	≈2595 Pounds
Gross Weight on Pallet - Concentrate	≈2210 Pounds	≈2264 Pounds	N/A
Gross Weight on Pallet - 50/50	≈2122 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	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

#### **Recommended for use in:**

ASTM D3306 ASTM D6210 BS 6580:2010 CAT EC-1 CES 14439 CES 14636 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 MAXXFORCE MB BB00.40-P-0310-01A, 325.3/326.3 MTU MTL 5048 MWM Deutz TR0199-99-1115 MWM Deutz TR0199-99-2091 Navistar CEMS B-1 Type IIIA Navistar MPAPS B-1 Type IIIA Volvo Coolant VCS: 20774185

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



KOST USA 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.







