



50-50 LONG-LIFE ANTIFREEZE

(Phosphate & Silicate Free, OAT, Red Antifreeze)

50-50 LONG-LIFE ANTIFREEZE is an organic acid technology (OAT) formula that with the addition of extender at 300,000 miles delivers 600,000 miles of total cooling system protection without SCA's (Supplemental Coolant Additives). This antifreeze contains a bitter tasting additive as a deterrent for accidental tasting by pets or children.

50-50 LONG-LIFE ANTIFREEZE is a coolant specially formulated for heavy-duty diesels or natural gas engines including Caterpillar, Cummins, Detroit Diesel, Mack, MTU, International and other original equipment manufacturers.

It is also suitable for automobiles, trucks, busses and heavy equipment. It contains special inhibitors to provide excellent foam resistance and superior corrosion protection for all types of metals found in cooling systems such as aluminum, copper, solder, steel, brass and cast iron.

50-50 LONG-LIFE ANTIFREEZE is compatible with cooling system components, hoses, and most major brands of antifreeze.

Furthermore, it will not harm automotive finishes. 50% solution of **50-50 LONG-LIFE ANTIFREEZE** is a prediluted 50% dilution and is "ready-to-use" for year-round performance.

50-50 LONG-LIFE ANTIFREEZE contains NO silicates, nitrates, phosphates or borates. Instead it contains molybdate, carboxylate, nitrite and other proprietary additives.

BENEFITS

- **600,000 MILES OR 12,000 HOURS OF PROTECTION**
- **SUPERIOR HEAT TRANSFER**
- **SUPERIOR CORROSION PROTECTION**
- **INERT TOWARDS AUTOMOTIVE FINISHES**

50-50 LONG-LIFE ANTIFREEZE is a heavy-duty diesel coolant that meets or exceeds the following specification:

- **ASTM D-3306 (Automotive service)**
- **ASTM D-4985, D-6210 (HD Diesel)**
- **ASTM D 5345 (prediluted HD Diesel)**
- **Caterpillar EC-1**
- **Chrysler MS 9769**
- **Cummins 90T8-4**
- **Detroit Diesel 7SE-298**
- **General Motors 1899-M and 1825-M**
- **John Deere H24A1, H24C1**
- **Mack Truck**
- **Navistar B 1**
- **SAE J 1034**
- **Mercedes DBL 7700**
- **Truck Maintenance Council RP-329, RP-330**
- **Volvo/GM Heavy Truck**

FREEZE/BOIL PROTECTION CHART

(Using a 15 psi pressure cap)

% of Cooling System Capacity	PROTECTS AGAINST	
	Freezing Down to:	Boiling Up to:
40	-10 F	259 F
50	-34 F	265 F
60	-62 F	270 F



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TYPICAL CHARACTERISTICS

Product Code	13611
Color	Red
Specific Gravity (ASTM D-1121) 60/60 °F	1.06
50% Antifreeze Solution	
Freeze Point (ASTM D-1177) °F (°C) max.	-34 (37)
Boiling point, °F	226
PH, 50% Volume	7.9
Flash Point (ASTM D-92) °F (°C), min	250 (121)
Composition, wt. %	
Total Glycols, wt%, min. (ASTM E 202)	47.5
Total Water, wt% max. (ASTM D 1123)	2.5
Chlorides, ppm (25 max)	10
Reserve Alkalinity (ASTM D-1121) ml	7
Foam Resistance (ASTM D-1881)	
Foam Volume, ml max.	50
Foam Break, seconds max.	5
Ash, wt% (5 max)	1

The above data is subject to usual manufacturing variation. For more information and availability, call 1-800-442-LUBE.
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