



LUBRICANTS

Guardol® OAT HD Coolant/Antifreeze

Phillips 66® Guardol OAT HD Coolant/Antifreeze is an Organic Acid Technology (OAT) that is intended for use and compatible with any OAT extended life heavy duty coolant/antifreeze in any diesel commercial vehicle engine or stationary engine with aluminum and other various engine metals. The advanced formulation is based on a concentrated blend of long-lasting inhibitors designed to provide up to 600,000 miles/12,000 hours* of protection against temperature extremes, corrosion, scale, rust and premature water pump failure. Guardol OAT HD Coolant/Antifreeze is available in both concentrate and prediluted 50/50 formulas.

*TOP OFF: Will maintain extended life protection when added to any OAT extended life antifreeze/coolant. FLUSH AND FILL: Receive protection for up to 600,000 miles or 12,000 hours with a complete flush and fill using Guardol OAT HD Coolant/Antifreeze.

Applications

Check engine coolant level frequently and top off with Guardol OAT HD Coolant/Antifreeze when necessary. Guardol OAT HD Coolant/Antifreeze can also be used for flush and fill. To ensure best performance, the system should be drained and flushed thoroughly. A 50/50 mix of Guardol OAT HD Coolant/Antifreeze is recommended to ensure proper freezing/boilover protection. To provide the proper concentration level of inhibitors, never exceed 70%. Always check the specific maintenance and change-out intervals, coolant/antifreeze to water ratio, cooling system capacity, and service instructions recommended for your vehicle.

Meets or exceeds the following performance requirements:

- ASTM D3306, D4985, D6210, D7583
- TMC RP329, RP338
- Cummins Bulletin 3666132
- Cummins CES 14603
- Navistar
- Detroit Diesel 93K217
- Freightliner 48-25878
- CAT EC-1
- Volvo 128603
- SAE J1941

Features/Benefits

- Nitrite free, Organic Acid Technology (OAT)
- Compatible with all heavy duty OAT formulations
- Requires no initial Supplemental Coolant Additive (SCA) or Extender
- Complete liner pitting and corrosion protection for aluminum and all other engine metals
- When used as directed, Guardol OAT HD Coolant/Antifreeze provides long-lasting inhibition and corrosion protection

**Heavy Duty
Nitrite Free
OAT Extended
Life Coolant/
Antifreeze**

KEEPING THE
WORLD
RUNNING
SMOOTHLY. 



Guardol® OAT HD Coolant/Antifreeze		
Composition	Typical Values	
Ethylene Glycol and Inhibitors: Concentrate 50 vol %	97.9% 51%	
Water: Concentrate 50 vol %	2.1% 49%	
Dyes	Trace	
Color	Red	
Odor	Characteristic	
Average Fluid Weight/Unit at 68°F (20°C): Concentrate 50 vol %	9.3 lb (4.2 kg) / gal (3.78 L) 8.9 lb (4.0 kg) / gal (3.78 L)	
Properties	Typical Values	ASTM Method
Ash, Mass: Concentrate 50 vol %	1.20% 0.60%	D1119
pH, 50 vol %	8.6	D1287
Reserve Alkalinity: Concentrate 50 vol %	10.0 mL 5.0 mL	D1121
Specific Gravity at 20°C: Concentrate 50 vol %	1.118 1.070	D1122
Flash Point, 50 vol %	None	Tag Open Cup
Foam Test	70 mL / 2.0 sec	D1881

Protection	Freeze-Up Protection	Boil-Over Protection*
40% 60% Water	-12°F (-24°C)	221°F (105°C)
50% 50% Water	-34°F (-37°C)	265°F (129°C)
60% 40% Water	-62°F (-52°C)	270°F (132°C)
70% 30% Water	-84°F (-64°C)	276°F (136°C)

*Using a 15lb pressure cap in good condition.

Health & Safety Information

For recommendations on safe handling and use of this product, please refer to the Safety Data Sheet via <http://www.phillips66.com/SDS>.

08-30-2022

Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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