



AdvanceGuard™

Premium 50 Truck & Tractor Antifreeze & Coolant

Product Description

AdvanceGuard Premium 50 Truck & Tractor Antifreeze is an ethylene glycol-based (EG) coolant-antifreeze designed for use in both stationary and mobile trucks and tractors powered by diesel fuel. It is formulated for extended life and corrosion protection in heavy-duty systems. It contains a borate-based product with nitrite to protect diesel engines from liner pitting and corrosion. The AdvanceGuard™ Premium 50 Truck & Tractor is low-silicate and includes a full charge of heavy-duty chemical inhibitors. The product is recommended for use in Caterpillar, Detroit Diesel, Cummins, and other heavy-duty diesel engines. Mineral scale deposits are controlled by a high-performance scale inhibition polymer, which improves overall performance in operating systems that encounter poor water quality in the field.

Typical Physical Properties

Form@70°F	Green Liquid
Glycol Concentration, %	50 (Monoethylene Glycol)
Relative Density 60°F (15.5°C)	1.07 to 1.09
Density, (lbs/gal)	8.95 (typical)
Freeze Point, °F (°C)	-34 (-37) max
Boiling Point, °F (°C)	265 (129) min (29.7 psia)
pH	8.5 (typical)
Dilution Water	Deionized Low TDS (<500 ppm)

Application Information

AdvanceGuard Premium 50 Truck & Tractor Antifreeze is ready-to-use and is not diluted further before being added to the coolant system. Existing coolant systems should be cleaned and flushed with AdvanceClean EJC 100 or EJC 200 Engine Jacket Cleaner, followed by a flush with low TDS water to clear the system. Then, the AdvanceGuard HD Truck & Tractor EL Antifreeze / Coolant can be added to the radiator of the vehicle or equipment.

Performance & Compatibility

AdvanceGuard Premium 50 Truck & Tractor Antifreeze is formulated to meet or be compatible with the performance requirements of the following industry and OEM standards (based on additive performance).

TMD RP 329	Cummins CES14603	Navistar	ASTM D-6210
Caterpillar	Freightliner 48-22880	ASTM D-4985	Detroit Diesel 7SE298
Volvo GM	ASTM D-3306	John Deere 8650-5	PACCAR
SAE 1941	Case Corp. MS1710	MACK	GM 1825
Ford New Holland 9-86	EMD M.I. 1748E	GM 1899	Therm-King
Waukesha 4-1974D	CID A-A 52624A		

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Handling & Precautions

AdvanceGuard™ Premium 50 Truck & Tractor Antifreeze is available in 5-gal buckets, 55-gallon drums, 275-gal one-way tote tanks, and bulk truck volumes. **AdvanceGuard Premium 50 Truck & Tractor Antifreeze** is an industrial chemical. It should only be handled by individuals who have read and are familiar with the handling precautions outlined in the product's safety data sheet.

Conventional Characteristics

Appearance	Blue/Green
Specific Gravity, (60/60F) ASTM D1122	1.072
pH (33% solution) ASTM D1287	8.5 (typical)
Reserve Alkalinity ASTM D1121	2.8 min
Water content, wt % (approx)	48.7
Total Glycol, wt %	51.0 min.
Freeze Protection (Pressure Independent, ASTM D1177) 60% EG 50% EG 40% EG 30% EG	-67 °F (-54 °C) -34 °F (-37 °C) -8 to -12 °F (-23 °C) 5 °F (-15 °C)
Boiling Protection 15 lb pressure cap (29.7 psia) 60% EG 50% EG 40% EG 30% EG Water	~ 270 - 275 °F (132 - 135 °C) ~ 265 °F (129 °C) ~ 262-267 °F (128-131 °C) ~ 270-275 °F (132-135 °C) ~ 250 °F (121 °C)
Nitrites	> 800 ppm
Silicate, %	- 0 -
Phosphate, %	- 0 -
Amine, %	- 0 -
Borate, %	> 500 ppm
Nitrates, %	- 0 -
<i>* These values are typical values and should not be used as a quality control parameter either to accept or reject product. Specifications are subject to change without notice.</i>	
Additive Technology	Tolytriazole Nitrites Borates
SCA Required	No (optional)
Aluminum compatible	Yes

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