



DATA SHEET

HEAVY-DUTY CONVENTIONAL ANTIFREEZE

Ethylene Glycol, Fully Formulated Coolant

This heavy-duty, conventional antifreeze/coolant is precharged for use in heavy-duty diesel engines. It's formulated with a heavy-duty additive package that contains the initial charge of supplemental coolant additive and a minimum of 1200 ppm nitrite (as NO₂).

YEAR-ROUND PROTECTION

It provides excellent protection from cavitation erosion/corrosion in water pumps and wet sleeve cylinder liners as well as overall corrosion protection for multimetal systems.

EXTENDED SERVICE LIFE

In systems where coolant filtration is in place along with a formal monitoring and maintenance program, the

coolant can provide up to three years/300,000 miles with the addition of heavy-duty supplemental coolant additive as needed. Monitoring and maintenance of the engine coolant should include regular testing at normal oil drain intervals.

BENEFITS

- Available in concentrate and premix 50/50
- All-season formulation cools engine in summer, protects from freezing in winter
- Works in all heavy-duty diesel and compressed natural gas engine cooling systems requiring conventionally inhibited heavy-duty coolants
- Phosphate-free formula reduces the risk of hot surface scaling

- Meets the performance requirements of:
 - ASTM D6210
 - ASTM D3306
 - ASTM D1384
 - ASTM D4340
 - ASTM D2570
 - ASTM D2809
 - Low silicate formulation meets ASTM D4985

APPLICATIONS

- TMC RP329
- Cummins CES14603
- Caterpillar EC-1
- Freightliner 48-22880
- Detroit Diesel 7SE298 and 93K217
- Volvo/Mack
- PACCAR
- John Deere

Heavy-Duty Conventional Antifreeze Characteristics

Characteristic	Specification	Company Typical	ASTM Method
Chloride (ppm)	25 Maximum	<5	D3634
Specific gravity, 60°F	1.065 min	1.070	D1122
Effect on engine/vehicle finish	No effect	Pass	D1882
Boiling Point, 50% V/V	226°F/107°C min	230°F	D1120
Freezing Point, 50% V/V	-34°F/-36°C min	-34°F	D1177
Ash content, mass %	2.5 Maximum	<2.5	D1119
pH, 50% V/V	10.2-10.8	10.7	D1287
Reserve alkalinity*	None specified	5.0 min	D1121
Color		Green	Visual
Foaming	150 mL max 5 seconds max	Pass	D1881

*Boiling point shown above and below is at atmospheric pressure. Add 40°F for 15 psi radiator cap. Reserve alkalinity (RA) is a value agreed between the customer and supplier.

% Antifreeze	Freezing Point		Boiling Point*	
	°F	°C	°F	°C
40%	-9 max	-22 max	220 min	104 min
50%	-34 max	-36 max	226 min	107 min
60%	-54 max	-65 max	230 min	110 min

Check the vehicle manufacturer's recommendations or the owner's manual when servicing the cooling system, including coolant selection, top off, and maintenance.

*Boiling point shown at atmospheric pressure. Add 40°F for 15 psi radiator cap.

