

Heavy Duty ELC Nitrite-Free

Ethylene Glycol Nitrite-Free Oat Extended Life Antifreeze/Coolant

Heavy-Duty ELC Nitrite-Free is an organic acid technology (OAT) antifreeze/coolant for heavy-duty diesel applications. It contains a proprietary inhibitor technology that is free of nitrite, phosphate, silicate and borate. The product provides year-round protection against freeze-ups, boil-overs and engine cooling system corrosion without the use of supplemental coolant additives (SCA's)

Heavy-Duty ELC Nitrite-Free offers excellent heat transfer capabilities and high temperature protection for systems that contain aluminum alloys. Recommended for use in all HD applications, including systems that have controlled atmosphere brazed (CAB) radiators. In addition, this formulation provides excellent protection against wet sleeve liner pitting.

In heavy-duty applications provides up to 600,000 miles on-highway or up to 12,000 hours off-road service where a well-established monitoring program is in place for testing coolant at least twice a year. Coolant Extender is generally needed at half-life (300,000 miles or 6000 hours) and may be added based on results from coolant sample analysis.

Characteristic	Specification	Company Typical	ASTM Method
Color	Distinctive	Universal	Visual
Freezing Point (50% V/V)	-34°F/-36°C min.	-34°F	D1177
Boiling Point (50% V/V)	226°F/107°C min.	230°F	D1120
Specific gravity (60°F)	1.065 min	1.070	D1122
pH (50% V/V)	8.0-9.0	8.5	D1287
Reserve alkalinity (50% V/V)	None specified	3.0 min.	D1121
Chloride (ppm)	25 Max.	< 5	D3634
Ash content, mass %	2.5 max.	< 2.5	D1119
Foaming Tendency	150 mL max. 5 seconds max.	Pass	D1881
Effect on engine/vehicle finish	No effect	Pass	D1882

*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.

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 HD coolants
- Does NOT contain 2EH (2-ethylhexanoic acid)
- Meets the performance requirements of:
 - TMC ATA RP 329
 - TMC ATA RP 338A
 - ASTM D6210
 - ASTM D3306
 Which include:
 - ASTM D1384
 - ASTM D4340
 - ASTM D2570
 - ASTM D2809
- Low silicate formulation meeting ASTM D4985
- Recommended for use in the following applications but not limited to:
 - John Deere, PACCAR, Volvo/Mack, Caterpillar, Cummins CES14603, Detroit Diesel 93K217, MAN 324 Type SNF, MTU 5048, Mercedes DBL 7700, Navistar CEMS B-1 Type IIIA, and Hino Trucks