EGN Antifreeze/Coolant

High performance Nitrited Organic Additive Technology (N-OAT) based coolant

Product description

EGN Antifreeze/Coolant is a concentrate and premixed premium coolant, designed to help provide year-round frost protection and good corrosion, and boil protection in the most extreme conditions in on- and off-road heavy-duty, stationary, and natural gas engine applications.

EGN Antifreeze/Coolant is formulated with Nitrited Organic Additive Technology (N-OAT) and is available as a concentrate and in premixed concentrations of 50/50. EGN Antifreeze/Coolant is free of 2-EHA and borate.

Customer benefits

- Advanced heat transfer performance throughout fluid lifetime
- Good oxidation and pH stability even at high temperatures to help control deposits and limit acidic glycol degradation product formation
- Designed to offer improved cylinder liner protection and compatibility with CAB brazed Aluminium heat exchangers
- Long life OAT-backed performance with virtually non-depleting organic corrosion inhibitors
- Neutralisation package designed to help avoid adverse effect of flux material used during the production process of aluminium heat exchangers helps prevent the formation of gels or deposits in the cooling system

Product highlights

- **Advanced heat transfer performance**
- **Long life OAT-backed performance**
- **Good high temperature oxidation and pH stability**
- **Neutralisation package helps prevent gels or deposits**

Selected specification standards include:

ASTM	Caterpillar
CES	Cummins
Deutz	GB
GE-Jenbacher	Wärtsilä

Applications

EGN Antifreeze/Coolant can be used with confidence in engines manufactured from cast iron, aluminium or combinations of the two metals, and in cooling systems comprising aluminium or copper alloys. It is particularly recommended for heavy-duty, stationary engines, where high temperature aluminium protection is important.

EGN Antifreeze/Coolant is suitable for use in marine engines and industrial applications.

EGN Antifreeze/Coolant is compatible with a wide range of materials, including (but not limited to) the following:

- Elastomers - EPDM, HNBR, NBR, FKM, Silicone (ensure that the material type/grade is appropriate for the operating temperature)
- Plastics - PP, PA, PTFE, PPS
- Metals - Iron, Steel, Copper, Aluminium

Approvals, performance and suitable for use

Performance

- ASTM D3306
- ASTM D6210
- GB 27943.1-2022
- CES 14439

Suitable for use

- Caterpillar
- Cummins
- Deutz
- GE-Jenbacher
- Wärtsilä

Product maintenance and handling

EGN Antifreeze/Coolant can be stored for at least 8 years in unopened containers without any effect on the product quality for performance.

EGN Antifreeze/Coolant should be stored above -20 °C and preferably at ambient temperatures. Periods of exposure to temperatures above 35 °C should be minimised.

It is strongly advised not to expose EGN Antifreeze/Coolant to direct sunlight when stored in translucent packages, as this can result in fading of the colour or discoloration over time. This process may be accelerated if it is coupled with high ambient temperatures.

As with any antifreeze coolant, the use of galvanised steel is not recommended for pipes or any other part of the storage/mixing installation (the copper inhibitor may react with the zinc from the galvanized parts, reducing its effectiveness in protecting red and yellow metals).

Instructions for use

EGN Antifreeze/Coolant – Concentrate should be diluted before use; it is recommended to use deionized or distilled water for this purpose. It is recommended to use at least 33 vol% of EGN Antifreeze/Coolant – Concentrate in the coolant mixture (this provides an initial freezing point of -18°C). Mixtures of more than 70 vol% EGN Antifreeze/Coolant – Concentrate with water are not recommended (concentrations higher than this can lead to a reduction in freeze protection).

EGN Antifreeze/Coolant – Premixed should be used as purchased. No dilution is recommended.

EGN Antifreeze/Coolant is compatible with Havoline XLC Antifreeze/Coolant and Delo XLC Antifreeze/Coolant, and with most other coolants based on ethylene glycol. For optimum performance, exclusive use of EGN Antifreeze/Coolant is recommended.

Typical test data

Test	Test Methods	Results	
Formulation		**Concentrate**	**Premixed 50/50**
Colour	Visual	Red	Red
Density at 20°C, kg/L	ASTM D5931	1.124 typ	1.073 typ
Equilibrium boiling point, °C	ASTM D1120	177 min	110
Initial crystallization, °C	ASTM D1177	-	< -36.4
pH at 20°C	ASTM D1287	8.6	8.3
Freezing point, °C	ASTM D3221	-	-37 max.

The typical test data set out above does not constitute a specification. It is indicative only and can be affected by allowable production tolerances. Chevron may modify this test data. Modified data will supersede all previous data, so please ensure you refer to the latest version of this Product Data Sheet (PDS).