Havoline® Extended Life Coolant Concentrate - PG

High performance extended life anti-freeze coolant

Product description

Havoline Extended Life Coolant Concentrate - PG is a high performance extended life engine coolant designed to offer reliable system boiling, freezing and corrosion protection, including high temperature corrosion in modern aluminium engines.

Havoline Extended Life Coolant Concentrate - PG is propylene glycol based, and formulated in combination with advanced technology non-depleting corrosion inhibitors. It is designed to offer long, low-maintenance service, and is available in concentrate form.

Customer benefits

- Advanced non-depleting corrosion inhibitor technology promotes extended low maintenance service life and system uptime
- Mixed fleet applications offer at least 650,000km in trucks and buses, 250,000km in passenger cars and 32,000 hours in stationary engines
- Promotes reliability and corrosion protection in thermostats, radiators, water pumps and other vulnerable cooling system components
- High performance silicate- and phosphate-free formulation contributes to reliable hard water stability
- Aids high temperature corrosion protection in modern engines, helping reduce maintenance, downtime and cost

Product highlights

- **Offers extended low maintenance service life**
- **Mixed fleet applications**
- **Promotes component protection and reliability**
- **Phosphate-free water stability**
- **Aids high temperature aluminium corrosion protection**

Selected specification standards include:

ASTM D3306

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

Applications

- Havoline Extended Life Coolant Concentrate - PG is recommended for use in automotive, heavy duty and stationary engines that require high performance heat transfer capability, cavitation resistance and long-life cooling system protection
- This product is not to be used to protect the inside of potable water systems against freezing

Approvals, performance and recommendations

Recommendations

- Havoline Extended Life Coolant Concentrate - PG is suitable for use in applications that require ASTM D3306
- It is recommended not to dilute this product with other coolant formulations by more than 25% in order to maintain performance

Product maintenance and handling

- Havoline Extended Life Coolant Concentrate – PG should be stored at 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 Havoline Extended Life Coolant Concentrate - PG in translucent packages to direct sunlight because this can result in discoloration over time
- Havoline Extended Life Coolant Concentrate - PG should be diluted before use. Concentrations greater than 67% and lower than 33% are not recommended
- As with any antifreeze coolant, the use of galvanized steel is not recommended for pipes or any other part of the storage/mixing installation
- Havoline Extended Life Coolant Concentrate - PG has a storage shelf life of up to 8 years, provided the container remains sealed
- Always dispose of used coolant in accordance with all local, state and federal guidelines

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Typical test data

Test	Test Methods	Results
Viscosity Grade		**Concentrate**
Shelf Life: 96 months from date of filling indicated on the product label.		
Density at 20°C, Kg/L	ASTM D5931	1.042
Freezing point at 50vol%, °C	ASTM D1177	-32
Boiling point, °C	ASTM D1120	162
pH at 20°C, NUOM	ASTM D1287	8.9
Reserve alkalinity, mL 0.1N HCl	ASTM D1121	5.7
ASTM D1384 Glassware Corrosion Test (1)		
Copper, Weight loss, mg/coupon (2)	ASTM D1384	1 (10) (3)
Solder, Weight loss, mg/coupon (2)	ASTM D1384	3 (30) (3)
Brass, Weight loss, mg/coupon (2)	ASTM D1384	1 (10) (3)
Steel, Weight loss, mg/coupon (2)	ASTM D1384	0 (10) (3)
Cast iron, Weight loss, mg/coupon (2)	ASTM D1384	-1 (10) (3)
Aluminium, Weight loss, mg/coupon (2)	ASTM D1384	-1 (30) (3)
ASTM D4340 Aluminium Heat Rejection Test (4)		
Aluminium, Weight loss, mg/cm²/week (2)	ASTM D4340	< 0.2 (1.0) (3)

(1) Data generated on a 33vol% dilution as per the method

(2) Negative sign indicates a weight gain

(3) Values in between “( )” are ASTM D3306 max limits

(4) Data generated on a 25vol% dilution as per the method

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

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