



Havoline[®] Xtended Life Coolant

High performance extended life engine coolant

Product description

Havoline Xtended Life Coolant is a high performance long-life coolant, formulated to protect engines from freezing and boiling while offering advanced cooling system corrosion protection, including high temperature corrosion resistance in modern aluminium engines.

Havoline Xtended Life Coolant is a high performance ethylene glycol based formulation in combination with advanced non-depleting corrosion inhibitor technology. It offers a long, low maintenance service life and is available as a concentrate, a premix 50/50 and a premix 40/60.

Customer benefits

- Advanced non-depleting corrosion inhibitor technology offers extended low maintenance service life and system uptime
- Mixed fleet applications and formulated for in excess of 650,000 km in trucks and buses 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 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**
- **Designed for 650000 km in trucks, 32000 hours in stationary engines**
- **Promotes reliability and corrosion protection**
- **Designed for hard water stability**
- **Aids high temperature corrosion protection**

Selected specification standards include:

ASTM	Chrysler
DAF	Detroit Diesel
Deutz	Ford
GE - Jenbacher	General Motors
GMW	Hino
Isuzu	Kobelco
Komatsu	MAN
Mercedes-Benz	MTU
Navistar	Scania
TMC	Volvo
VW	Wärtsilä

Applications

- Havoline Xtended Life Coolant is recommended for use in automotive, heavy duty and stationary engines that require improved heat transfer performance, 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

Performance

Havoline Xtended Life Coolant meets the requirements of:

- ASTM D3306
- ASTM D6210
- Ford WSS-M97B44-D
- GMW 3420
- Mercedes-Benz 325.3 under Daimler DBL 7700.30
- VW TL 774-F
- DAF 74002
- Detroit Diesel 93K217
- MAN 324 Typ SNF
- MTU MTL 5048
- TMC RP 364 Type 1

Recommendations

Havoline Xtended Life Coolant is suitable for use in following engines:

- General Motors vehicles post 1995
- Chrysler vehicles post 2001
- Ford Vehicles post 2003
- European gasoline and diesel automobiles
- Japanese gasoline automobiles, SUVs and Pickup trucks
- Korean gasoline automobiles and SUVs
- Deutz Stationary Diesel Engines
- GE - Jenbacher Stationary Natural Gas Engines
- Hino Truck Diesel Engines
- Isuzu Truck Diesel Engines
- Kobelco Construction Equipment Diesel Engines
- Komatsu Construction Equipment Diesel Engines

- MTU 2000/4000 Diesel Engines
- Navistar™ MAXXFORCE Engines
- Scania Truck Diesel Engines
- Volvo Construction Equipment (VCE) Diesel Engines
- Volvo and Mack Truck Diesel Engines
- Wärtsilä Stationary Diesel Engines
- European HD OEMs that require both Phosphate-free and Nitrite-free formulations
- Japanese HD OEMs that require Silicate-free formulations

It is not recommended to dilute this product with other coolant formulations by more than 25%

Product maintenance and handling

- Havoline Xtended Life 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 Havoline Xtended Life Coolant in translucent packages to direct sunlight, as this can result in discoloration over time
- Havoline Xtended Life Coolant – Concentrate should be diluted before use
- For maximum protection against freezing in extremely cold areas, a 60% solution (3 parts coolant concentrate/2 parts water) can be used. Concentrations greater than 67% and lower than 33% are not recommended
- Havoline Xtended Life Coolant – Premixed 50/50 and Havoline Xtended Life Coolant – Premixed 40/60 should be used as purchased. Dilution is 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 Xtended Life Coolant 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		
Dilution		40/60	50/50	Concentrate
Shelf Life: 96 months from date of filling indicated on the product label				
Density at 20°C, Kg/L	ASTM D5931	1.056	1.068	1.113
Freezing point, °C	ASTM D1177	< -24	< -37	NA
Boiling point, °C	ASTM D1120	105	108	180
pH at 20°C, NUOM	ASTM D1287	8.5	8.6	8.7
Reserve alkalinity, mL 0.1N HCl	ASTM D1121	2.4	3.0	6.0
ASTM D1384 Glassware Corrosion Test ⁽¹⁾				
Copper, Weight loss, mg/coupon ⁽²⁾	ASTM D1384	NA	NA	2 (10) ⁽³⁾
Solder, Weight loss, mg/coupon ⁽²⁾	ASTM D1384	NA	NA	0 (30) ⁽³⁾
Brass, Weight loss, mg/coupon ⁽²⁾	ASTM D1384	NA	NA	2 (10) ⁽³⁾
Steel, Weight loss, mg/coupon ⁽²⁾	ASTM D1384	NA	NA	0 (10) ⁽³⁾
Cast iron, Weight loss, mg/coupon ⁽²⁾	ASTM D1384	NA	NA	-2 (10) ⁽³⁾
Aluminium, Weight loss, mg/coupon ⁽²⁾	ASTM D1384	NA	NA	5 (30) ⁽³⁾
ASTM D4340 Aluminium Heat Rejection Test ⁽⁴⁾				
Aluminium, Weight loss, mg/cm ² /week ⁽²⁾	ASTM D4340	NA	NA	< 0.2 (1.0) ⁽³⁾

⁽¹⁾ Data generated on a 33vol% dilution as per the method stated in any Product Data Sheet's.

⁽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.

Disclaimer Chevron accepts no liability for any loss or damage suffered as a result of using this product for any application other than applications specifically stated in any Product Data Sheet's.

Health, safety, storage and environmental Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application and in accordance with the recommendations provided in the Material Safety Data Sheet (MSDS). MSDS's are available upon request through your local sales office, or via the Internet. This product should not be used for purposes other than its intended use. When disposing of used product, take care to protect the environment and follow local legislation.

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