



Havoline Xtended Life Antifreeze/Coolant

High performance extended life antifreeze/coolant

Product description

Havoline® Xtended Life Antifreeze/Coolant is a high performance extended life antifreeze/coolant, formulated to protect engines from freezing, boiling, and cooling system corrosion, including high temperature corrosion in modern aluminium engines.

Havoline Xtended Life Antifreeze/Coolant is a high performance ethylene glycol-based fluid, formulated with advanced non-depleting corrosion inhibitor technology.

It offers a long, low maintenance service life and is available as a concentrate and as a premix with a concentration of 20/80 and 50/50.

Customer benefits

- Advanced heat transfer and non-depleting corrosion inhibitor technology offers extended low maintenance service and system uptime
- Designed to offer protection to passenger cars for more than 250,000 km, or up to five years
- Promotes reliability and corrosion protection in thermostats, radiators, water pumps and other vulnerable cooling system components
- Organic additive formulation, free from silicate, nitrite, borate, phosphate, nitrate and amines and which allows longer service life
- Aids high temperature corrosion protection in modern engines, helping reduce maintenance, downtime and cost

Product highlights

- **Offers extended low maintenance service life**
- **Designed to protect over 250,000 km, or 5 years**
- **Promotes reliability and corrosion protection**
- **Free from silicate, nitrite, borate, phosphate, nitrate and amines**
- **Aids high temperature corrosion protection**

Selected specification standards include:

ASTM	Chrysler
Ford	GM
Opel	VW

Applications

- Havoline Xtended Life Antifreeze/Coolant is recommended for use in automotive engines that require improved heat transfer performance, cavitation protection 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 suitable for use

Performance

Havoline Xtended Life Antifreeze/Coolant meets the requirements of:

- ASTM D3306
- Ford WSS-M97B44-D
- GM 6277M
- VW TL 774-F

Suitable for use

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

- Ford Vehicles post 2003
- European gasoline and diesel automobiles
- Japanese gasoline automobiles, SUVs and pickup trucks
- Korean gasoline automobiles and SUVs
- General Motors vehicles post 1995
- Opel vehicles post 1995
- Chrysler vehicles post 2001

It is not recommended to dilute this product with other coolant formulations by more than 25% in order to maintain performance claims.

Product maintenance and handling

- Havoline Xtended Life 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 Havoline Xtended Life Antifreeze/Coolant in translucent packages to direct sunlight, as this can result in discoloration over time
- Havoline Xtended Life Antifreeze/Coolant – Concentrate should be diluted before use. It is recommended to use deionized or distilled water for this purpose.
- 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 Antifreeze/Coolant – Premixed 20/80 and 50/50 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 (the copper inhibitor may react with the zinc from the galvanized parts, reducing its effectiveness in protecting red and yellow metals)
- Havoline Xtended Life Antifreeze/Coolant has a storage shelf life of up to 8 years, provided the container remains sealed

Typical test data				
Test	Test Methods	Results		
Dilution		Concentrate	50/50	20/80
Shelf Life: 96 months from date of filling indicated on the product label				
Density at 20 °C, kg/L	ASTM D1122	1.113	1.068	1.033
Freezing point, °C	ASTM D1177	NA	< -37	Max -11
Boiling point, °C	ASTM D1120	180	108	102
pH at 20°C, NUOM	ASTM D1287	8.7	8.6	8.5
Reserve alkalinity, mL 0.1N HCl	ASTM D1121	6.0	3.0	2.2
Refractive Index at 20 °C	ASTM D1218	1.430	1.385	1.359
Corrosion Test for Engine Coolants in Glassware (ASTM D1384)				
33 vol% dilution, Weight loss, mg/coupon ⁽¹⁾				
	ASTM D3306 (max)	Antifreeze/Coolant Concentrate		
Brass	10	1.6		
Copper	10	1.9		
Solder	30	0.1		
Steel	10	-0.5		
Cast iron	10	-1.4		
Aluminium	30	4.6		
Corrosion of Cast Aluminium Alloys in Engine Coolants				
Under Heat-Rejecting Conditions (ASTM D4340), 25 vol% dilution				
Weight loss, mg/cm²/week (1)	1.0	<0.2		

(1) Weight loss AFTER chemical cleaning in accordance with the ASTM procedure. Negative sign indicates a weight gain

* Typical Shelf Life: (a) if stored under normal conditions and (b) can be extended after re-testing

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).

Disclaimer: Data provided in this Product Data Sheet (PDS) is based on standard tests under laboratory conditions and is indicative only. This product should not be used for any purpose other than those expressly set out in this PDS. The user has sole responsibility for verifying that this product is suitable for the user's intended application. Neither Chevron nor its subsidiaries (i) make any warranty or representation as to the accuracy or completeness of this PDS; and/or (ii) accept liability for any loss or damage suffered as a result of the use of this product other than in accordance with the terms of this PDS.

When disposing of used product, take care to protect the environment and follow local legislation.

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.

Safety Data Sheets (SDS's) are available for all Chevron products. If you require a SDS or any further information regarding a Chevron product, please contact your local sales office or see www.texacolubricants.com.

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