Chevron Havoline®
雪佛龙 金富力

Havoline® Xtended Life Antifreeze/Coolant

Customer Benefits

OEM Approval
Meets the requirements of Ford WSS-M97B44-D, GMW3420, MB 325.3 and Volkswagen TL 774F specification.

Wide service application
Recommended for use in Domestic, Asia and European automotive and passenger car diesel applications including newer hybrid vehicles.

Hear Transfer
Improved heat transfer when compared to silicate containing antifreeze/Coolant products.

Long Service Life
250,000kilometers/5 years of cooling system protection.

Beneficial formulation
Organic additive formulation that is free of silicate, nitrite, borate, phosphate, nitrate and amines and which allows longer service life.

Protection
Outstanding high temperature protection of cooling systems metals including aluminum.

Water Pump Performance
Compatible with water pump seal materials and minimizes formation of abrasive solids which can help extend water pump life.

Performance
Superior protection at high operating temperatures. Reduces the occurrence of hard water scale.

Wide temperature application
Protects against winter freeze up and minimizes chances of summer boil over.

Reduced Inventory
Can be used in mixed fleet application where both gasoline and passenger car diesel vehicles are present from various manufactures.

Stability
Can be stored for approximately 8 years in sealed containers without any effect on the product quality or performance.

Product Features

Havoline® Xtended Life Antifreeze/Coolant is a single phase, ethylene glycol antifreeze/coolants based on an aliphatic corrosion inhibitor system available as a premix 50/50 and a premix 55/45.

Havoline® Xtended Life Antifreeze/Coolant is based on a patented aliphatic organic additive formulation that provides a service life of 250,000 kilometers/5 years and is approved under GMW 3420 meeting the GM dexcool® 1 requirements.

The main corrosion inhibitors in Havoline® Xtended Life Antifreeze/Coolant have been shown to remain above 95% of their original concentration with proper top off after 250,000 kilometers in automobiles. This allows much longer intervals between coolant change-outs.

Havoline® Xtended Life Antifreeze/Coolant has been formulated without inhibitors such as silicates that have been shown to be abrasive to water pump seals. In comparison taxi field tests versus conventional coolants, Havoline® Xtended Life Antifreeze/Coolant reduced the need to replace water pumps during the 160,000 kilometers test.
In addition to fleet tests, this product has also been tested by a major manufacture of water pump seals and has been found to be more compatible with the seals than other coolants previously tested.

Note: This product cannot be used to protect the inside of potable water systems against freezing.

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APPLICATIONS

Havoline® Xtended Life Antifreeze/Coolant meets the specifications of:

- ASTM D3306
- Ford WSS-M97B44-D
- GMW3420
- MB 325.3
- VW TL 774F

Havoline® Xtended Life Antifreeze/Coolant is recommended for use in:

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

It is recommended that this product not be diluted with other coolant formulations by more the 25% in order to maintain performance claims.

Product dilution and Boil Over Protection Recommendations for Havoline® Xtended Life Antifreeze/Coolant

Boiling Protection,	**˚C/˚F（using a 15 lb pressure cap）**
50% 1:1（1 part antifreeze/1 part water）	129.4/265
Freezing Protection,	**˚C/˚F**
33% 33:67（33 part antifreeze/67 part water）	-19/-2.2
40% 2:3（2 part antifreeze/3 part water）	-26/-14.8
50% 1:1（1 part antifreeze/1 part water）	-37/-34.6
55% 55:45（55 part antifreeze/45 part water）	-45/-49
60% 3:2（3 part antifreeze/2 part water）	-50/-58

Notes

- Product concentrates should be mixed before use of dilution.
- Havoline® Xtended Life Antifreeze/Coolant – Premixed 50/50 should be used as purchased. No dilution is recommended.
- For maximum protection against freezing in extremely cold areas, a 60 percent solution (3 parts antifreeze/2 parts water) can be used. Concentration s greater than 67 percent are not recommended.
- Always dispose of used coolant in accordance with all local, sated, and federal guidelines.

ENVIRONMENT, HEALTH and SAFETY

Information is available on this product in the Chemical Safety Data Sheet (SDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal. To obtain a SDS for this product, visit www.chevronhavoline.cn.

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Produce Reference

Note: Bitterant is a favor aversive that may help reduce the accidental ingestion of this product. These products contain bitterant.

Product Code: 510570
Havoline® Xtended Life Antifreeze/Coolant – Premixed 50/50

Product Code: 513504
Havoline® Xtended Life Antifreeze/Coolant – Premixed 55/45

Typical key properties

Havoline® Xtended Life Antifreeze/Coolant	
Color	Orange
Specific gravity，15/15˚C	1.117
Freezing point，˚C [2]，ASTM D1177	-36.7
pH [3]，ASTM D1287	8.5
Reserve alkalinity [4]，ASTM D1121	6.0
Silicate，% [5]	None

Minor varations in product typical test data are to be expected in normal manufacturing.

[2] 50 vol % aqueous solution.
[3] 1:2 dilution with water.
[4] As received.
[5] As anhydrous alkali metasilicate.

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ASTM D1384 Glassware Corrosion Test

Havoline® Xtended Life Antifreeze/Coolant	ASTM D1384 Glassware Corrosion Test	
	ASTM Limit	weight Loss, mg per Coupon [6]
Copper	10 max	2
Solder	30 max	-2
Brass	10 max	2
Steel	10 max	-1
Iron	10 max	-3
Aluminum	30 max	4

[6] Negative indicates net gain.

Handling Practices

The primary limiting factor in the shelf life of a coolant is silicate instability. Since silicate will eventually polymerize to silicate gel, traditional coolants have a shelf life of about 18 months. Havoline® Xtended Life Antifreeze/Coolant is silicate-free and can be stored for at least 8 years, provide the container remains sealed.

This bulletin was prepared in good faith from the best information available at the time of issue. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. It is the responsibility of the user to ensure that the products are used in the applications for which they are intended.

Chevron Lubricants.

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