

ChevronTexaco Havoline® Anti-Freeze/Coolant

Category : Fluid

Material Notes:

In service Havoline Extended Life Anti-Freeze/Coolant provides: Meets GM 6277M--GM's Long Life Coolant specification 5 year or 150,000 mile service interval Provides effective, long term corrosion protection for aluminum, brass, cast iron, steel, solder and copper Protects against winter freeze up and minimizes the chance of summer boil over Compatible with water pump seal materials and minimizes the formation of abrasive dissolved solids Storage stable for at least eight years No silicate dropout or gel formation during use or storage 100% biodegradable in its pure unused form Excellent heat transfer properties Nitrite-, borate-, phosphate-, nitrate- and amine-free Outstanding hot surface aluminum protection Superior protection in high operating temperatures Compatible with conventional antifreeze. Dilution with conventional antifreeze will reduce extended life benefits. ChevronTexaco recommends that this product not be diluted by more than 10% with conventional coolants. Havoline Extended Life Anti-Freeze/Coolant is a single phase, ethylene glycol type universal automotive engine coolant based on a Texaco's patented long life organic corrosion inhibitor system. Havoline Extended Life Anti-Freeze/Coolant is manufactured from ethylene glycol and a highly effective long term corrosion inhibitor package based on carboxylate technology. This inhibitor system eliminates the need for silicates, phosphates, borates, nitrites, nitrates and amine additives traditionally used for this purpose. The replacement of these inhibitors is significant for water pump life because many of these conventional inhibitors have been shown to be abrasive to water pump seals. In comparison field tests with conventional coolants in taxi fleets, Havoline Extended Life Anti-Freeze/Coolant significantly reduced the need to replace water pumps during the 100,000 mile test. In addition to fleet tests, this product has also been tested by a major manufacturer of water pump seals, and has been found to be more compatible with the seals than any other coolant tested. Havoline Extended Life Anti-Freeze/Coolant is a universal engine coolant that incorporates patented organic acid corrosion inhibitor technology. This coolant meets both ASTM D 3306 for automotive service and ASTM D 4985 for heavy-duty diesel service. It is a nitrite-, nitrate-, phosphate-, silicate-, borate and amine-free formulation which uses Texaco's patented carboxylate technology to provide maximum protection of the six basic metal alloys found in most heat transfer systems. Since the coolant contains no phosphates or silicates, hard water deposits in the cooling system are almost eliminated. The low level of abrasive dissolved solids in Havoline Extended Life Anti-Freeze/Coolant results in improved water pump seal life. The life of a coolant in an automobile engine is limited by the corrosion protection ability of the corrosion inhibitors. The main corrosion inhibitors in Havoline Extended Life Anti-Freeze/Coolant have been shown to remain above 95% of their original concentration after 150,000 miles in automobiles. This allows much longer intervals between coolant changes without worrying about loss of corrosion protection. Used Havoline Extended Life Anti-Freeze/Coolant was tested in laboratory controlled corrosion tests for new coolants after it had already been in service for more than 100,000 miles. The used Havoline Extended Life Anti-Freeze/Coolant passed the ASTM D 1384 requirements for glassware corrosion with results equivalent to new coolants and also passed the ASTM D 4340 Aluminum Hot Surface Test for new coolant. Havoline Extended Life Anti-Freeze/Coolant represents the next generation of universal engine coolants. This coolant is suitable for a five year or 150,000 miles service life in automotive applications. Note: These products are not to be used to protect the inside of potable water systems against frCPS Number: 227994; MSDS Number: 10299

Order this product through the following link:

http://www.lookpolymers.com/polymer_ChevronTexaco-Havoline-Anti-FreezeCoolant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	15/15°C

Physical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Melting Point	-36.7 °C	-34.1 °F	50 vol % Aqueous Solution; ASTM D1177

Descriptive Properties	Value	Comments
Appearance	Orange	
Glassware Corrosion Test, Aluminum	4	Weight loss, mg per coupon¹
Glassware Corrosion Test, Brass	2	Weight loss, mg per coupon¹
Glassware Corrosion Test, Copper	2	Weight loss, mg per coupon¹
Glassware Corrosion Test, Iron	-3	Weight loss, mg per coupon¹
Glassware Corrosion Test, Solder	-2	Weight loss, mg per coupon¹
Glassware Corrosion Test, Steel	-1	Weight loss, mg per coupon¹
Reserve Alkalinity (mL)	6	ASTM D1121
Silicate %	None	As Anhydrous Alkali Metasilicate

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