

Shell Long Life-OAT -45°C

Premium Anti-freeze, Anti-boil and Anti-corrosion pre-diluted coolant/antifreeze product ready to use directly in cooling systems



Shell Long Life-OAT -45°C is a **pre-diluted glycol based engine coolant with a corrosion inhibitor package that is based on a balanced mixture of organic corrosion inhibitors. Shell Long Life-OAT -45°C is suitable for all passenger cars, 4WDs, and light duty diesel vehicles.**

Shell Long Life-OAT -45°C is pre-diluted with good quality water and needs no further water addition, ready to use directly in cooling systems.

Applications

Shell Long Life-OAT -45°C is suitable for use in all passenger cars, 4WDs, and light utility vehicles.

Before using any coolant, please ensure that you have consulted your automobile owner's manual and your automobile manufacturer's recommendation prior to use.

This product is already pre-diluted with water and needs no further water addition.

Shell Long Life-OAT -45°C does not contain any amine, borate, nitrate, nitrite, phosphate or silicate corrosion inhibitor technology and is fully compatible with other similarly formulated OAT engine coolants.

Shell Long Life-OAT -45°C is compatible with Supplemental Coolant Additives (SCA) required by some heavy duty OEMs.

Performance Features and Benefits

Shell Long Life-OAT -45°C provides the following advantages:

- Universal product application, recommended for automotive, 4WD, and light duty diesel applications (check specific OEM requirements prior to use to ensure the best fit)
- Silicate free, which therefore avoids silicate gelation or fallout issues
- Amine, borate, nitrate and nitrite free and as such meets most basic Asian vehicle OEM chemistry requirements
- Phosphate free, which meets most basic European OEM chemistry requirements
- Excellent wet sleeve liner cavitation protection as determined via the Deere & Company Engine Cavitation Test
- Provides wet sleeve liner cavitation protection without an initial charge of SCA or coolant extender
- Compatible with nitrite and molybdate corrosion inhibitor chemistry in SCAs
- Compatible with other similarly formulated OAT engine coolant technology
- Provides appropriate corrosion protection to all coolant system metals including copper, solder, brass, steel, cast iron and aluminum
- Excellent shelf stability, 5 years
- Extended Life up to 5 years, 250,000 km

Shell Long Life-OAT -45°C pre-diluted with de-ionized water.

- Hassle-free use as it eliminates the need for complex solution mixing
- Guaranteed water quality and is especially important in areas of poor/hard water
- Guaranteed ratios of corrosion inhibition additives and glycol

Product Usage Recommendations

This product is already pre-diluted and **DOES NOT NEED ANY FURTHER ADDITION OF WATER!**

Adding too much water to the coolant system without sufficient corrosion inhibitor **will** create corrosion performance issues in any engine coolant system.

This product is to be applied directly into cooling systems.

Specifications

Shell Long Life-OAT -45°C meets the performance requirements of the following industry and OEM engine coolant specifications:

Agency	Specification
ASTM	D3306 / D4985
Ford	WSS-M97B44-D
GM	1825M / 1899M / 6277M
JIS	K 2234
AS/NZS	2108.1:1997
SAE	J1034 / J1941
Nissan	NES 5059 LLC
Volkswagen	VW/Audi/Porsche TL 774F
US Federal	A-A-870-A

Advice

Advice on applications not covered in this leaflet may be obtained from your Shell Representative.

obtained from your Shell representative. This product contains monoethylene glycol. Keep away from children and animals.

Health and Safety

Guidance on Health and Safety are available on the appropriate Material Safety Data Sheet, which can be

Protect the environment

Take used coolant to an authorized collection point. Do not discharge into drains, soil or water.

Typical Physical Characteristics

Test	Performance	Test Method
Colour	Orange-Red	
pH	7.8 - 9.5	ASTM D 1287
Specific Gravity (20 °C)	1.070 – 1.085	ASTM D 1122
Reserve Alkalinity	1.7 – 2.5	ASTM D-1121
Freeze point (°C)	-46 max	ASTM D 1177
Water Content (% wt)	42 - 43	ASTM D-1123

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.