



Texol™ Multifreeze XCI

Technical Data Sheet

Texol™ Multifreeze XCI

Ultra high performance extended life corrosion inhibitor

Product Description

Texol™ Multifreeze XCI is an ultra high performance extended life, low toxicity, environmentally friendly corrosion inhibitor concentrate. Texol™ Multifreeze XCI is formulated with patented advanced carboxylate additive technology, designed to offer long-life, low Maintenance corrosion protection.

Texol™ Multifreeze XCI has been extensively field tested and the synergistic combination of mono and di-carboxylic additives has been proven to promote effective protection for over 8,000 hours or 650,000 km in off-road, truck and bus application, and 32,000 hours in marine and stationary engines. The product is compatible with a range of glycol-based engine coolants.

Customer benefits

- Advanced synergistic additive technologies offer extended, low Maintenance corrosion protection, helping increase uptime
- Promotes high performance protection in thermostats, radiators, water pumps and other vulnerable cooling system components
- Offers reliable protection to a wide range of metals including aluminium, iron, copper and solder alloys
- Aids performance and cooling system protection in modern high temperature aluminium engine environments
- Reliable, high technology non depleting inhibitors aid consistent long-life performance and protection
- Silicate and phosphate-free technology offers reliable, stable dilution in harder waters
- Environmentally friendly carboxylic additive technology

Applications

- Mixed with the appropriate amount of water, Texol™ Multifreeze XCI is recommended as a coolant, flushing fluid or hot test fluid for engine blocks and cooling systems. During extensive field testing, the synergistic combination of mono and di-carboxylic additives has proven to offer protection for at least 32,000 hours in marine and stationary applications
- Texol™ Multifreeze XCI promotes long life protection against corrosion through the use of optimised and patented organic corrosion inhibitors. Texol™ Multifreeze XCI offers long life protection to aluminium heat transfer surfaces contained in modern engines. The inhibitor package of Texol™ Multifreeze XCI aids cavitation protection without nitrite or nitrite-based supplemental coolant additives (SCA's)



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- Texol™ Multifreeze XCI promotes long life corrosion protection. Depending on the actual application the dosage may vary from 5-10 % but a minimum of 5 vol. % of Texol™ Multifreeze XCI in water should be used. Texol™ Multifreeze XCI may be used in engines manufactured from cast iron, aluminium or combinations of two metals, and in cooling systems made from aluminium or copper alloys. The correct dosage of Texol™ Multifreeze XCI may be established with a refractometer reading
- Texol™ Multifreeze XCI is recommended for hi-tech engines such as race cars and heavy duty off-road equipment, where high temperature aluminium protection is important
- In marine applications, the concentration of Texol™ Multifreeze XCI should not be lower than 5 vol. %. At this dosage the recommended life-time is at least 32,000 hours. If Texol™ Multifreeze XCI is replenished regularly to compensate for leakage, the cooling water can be considered as fill for life
- For off-road, truck and bus applications the recommended life time is 8,000 hours or 650,000 km, provided a concentration of 7.5 % vol. Texol™ Multifreeze XCI is used
- At 7.5 % vol., Texol™ Multifreeze XCI will provide corrosion protection in stationary engines for at least 32,000 hours
- Texol™ Multifreeze XCI can also be used at 10 % vol. as a hot test liquid for new engine blocks. Newly manufactured engines are tested for a duration of approximately 5 to 10 minutes, after which the fluid is drained and usually reused. If the engines blocks are not immediately built into vehicles, Texol™ Multifreeze XCI will provide corrosion protection for the engine for up to two months
- At 6 % and 7 % vol. Texol™ Multifreeze XCI performs as a flushing fluid to clean cooling systems that were filled with other inhibitor packages. In most cases it is required to flush the system twice. For a good result it is important that the engine has reached normal operating temperatures and all thermo-valves are opened
- Texol™ Multifreeze XCI can also be used as an inhibitor package for central heating systems, as a hydraulic safety and mining fluid
- The use of soft water is preferred for dilution. Laboratory testing has shown that acceptable corrosion results are still obtained with water of 25° dH, containing up to 500 ppm chlorides or 500 ppm sulphates. The water used for dilution should be free of zinc as the presence of zinc will result in the formation of a precipitate



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Typical Properties

Property (Unit)	Multifreeze XCI	
pH	9.5 typ.	ASTM D1287
Specific gravity, 15°C	1.055 typ.	ASTM D1122
Cloud point	-15°C typ.	
Pour point	-39°C typ.	ASTM D97
5% dilution		
-Ph	8.1 typ.	ASTM D1287
-Hard water stability	No precipitate	VW PV 1426
-Effect on non-metals	No effect	GME 60 255
-Staining characteristics	No effect	ASTM D1882
Colour	Clear/Pale yellow	

Technical Expertise

Texol experts on Texol™ Multifreeze series are regionally located to respond to your needs. Whether you have a question about products, applications or regulations, Texol offers comprehensive customer and technical service.

Storage and handling

- This product should be stored above -10°C and preferably at ambient temperatures. Periods of exposure to temperatures above +35°C should be minimised
- Texol™ Multifreeze XCI can be stored for approximately 5 years in unopened containers without effect on the product quality or performance

The statements made in this publication are according to our present knowledge. They do not absolve the user from own examinations. A legally binding assurance of certain properties or suitability for a specific use can no be derived from our statements. Possibly existing laws and regulations concerning the handling and use of our products have to be observed by the receiver of our products himself.