



ENVIRO COOL XLI

DESCRIPTION

ENVIRO COOL XLI is an environmentally sensitive coolant and corrosion inhibitor using extended-life organic acid Carboxylate Technology. Based on patented aliphatic acid technology, the ENVIRO COOL XLI provides superior corrosion protection in aqueous solutions for all engine and cooling system metals, including aluminum, iron, steel, copper and solder alloys. The corrosion inhibitor prevents liner cavitation erosion, protects and improves aluminum heat transfer surfaces. ENVIRO COOL XLI is suitable for use in automotive cooling systems, marine engines and stationary power generation where glycol-based antifreeze is not required.

ENVIRO COOL XLI meets the performance standards of MAN B&W (2 & 4 stroke engines), Wartsila (diesel, gas, dual fuel engines), Yanmar, New Sulzer Diesel (2 stroke engines), MaK, Ruston (MAN B&W), Ulstein Bergen 2.13.01 (diesel & gas engines), MTU (MTL 5049) Series 2000 / 4000 engines, Deutz (TR0199-99-2091) medium & large engines, Liebherr MD 1-36-130 (DCA), MAN 248, Scania, Mercedes Benz trucks (MB 312.0) and Detroit Diesel.

CHARACTERISTICS

- Extended & superior corrosion protection
- Superior technology
- Excellent protection
- Improved hard water stability & reliability
- Save time and maintenance cost
- Environmentally friendly
- Approved by major OEMs & national authorities

APPLICATION

ENVIRO COOL XLI is recommended for use as a coolant, flushing fluid or hot test fluid for engine blocks and all cooling systems including automotive, marine and transport engines, stationary power generation engines, construction, earthmoving, mining and quarrying equipment, high temperature aluminum engine blocks and as an inhibitor package for central heating systems, hydraulic safety fluids and mining fluids.

Recommended maximum service intervals are:

- 600,000 KM for heavy duty diesel (on-road)
- 8,000 hours for heavy duty diesel (off-road)
- 250,000 km for commercial vehicles
- 32,000 hours for marine engines & stationary power generation

The product is compatible with glycol-based engine coolants.

TYPICAL SPECIFICATION

ENVIRO COOL XLI PROPERTIES		
Specific gravity, 20°C	ASTM D1122	1.058
Appearance	Visual	Clear liquid
Color	Visual	Fluorescent green
Nitrate, amine, phosphate, borate content	-	Nil
Silicate content, as Na ₂ SiO ₃ , m%	-	Nil
Effect on non-metals	GME 60 255	No effect
Hard water stability	VW PV 1426	No precipitate
pH Value	ASTM D1287	8.3
Reserve alkalinity	ASTM D1121	2.7

ENVIRO COOL XLI is blended with reversed osmosis filtered aqua solution to the following specifications:

Chloride Ion content, max, mg/kg	40
Sulfate content, max, mg/kg	100
Total hardness (CaCO ₃ & MgCO ₃), max, mg/kg	170
pH @ 25°C	5.5 to 9.0
Total Solids, max, mg/kg	340