Delo® ELI Corrosion Inhibitor

(Formerly: Delo® XLI-N Corrosion Inhibitor Concentrate)

Product description

Delo® ELI Corrosion Inhibitor is a water-based inhibitor, super concentrate, using a patented synergistic combination of aliphatic carboxylates that also contains nitrate and molybdate as secondary inhibitors.

Customer benefits and product features

Customer benefits

- **Long service life**
  600,000 miles, 1,000,000 km, 12,000 hours, 6 years in on-road and off-road engine applications and 32,000 hours or 8 years in stationary engines with yearly testing required.
- **Corrosion protection**
  Extended life corrosion protection in acqueous solutions for engine metals, including aluminium, iron, steel, brass, copper and solder alloys.
- **Compatibility**
  Compatible with glycol-based engine coolants and other water based corrosion inhibitors. Dilution of this product by more than 25% with other inhibitor technologies will reduce inhibitor protection performance. Excellent elastomer compatibility.
- **Wide application**
  Recommended for use in internal combustion engines regardless of fuel type where freeze point is not needed and the OEM recommends a nitrate containing, sicilate free water based extended life coolant. Delo ELI Corrosion Inhibitor has been successfully used in marine, on-road, off-road and stationary application engines. This product also can be used as an extended life heat transfer fluid in circulating systems.
- **Excellent protection**
  Protects cooling system engine metals including aluminium against erosion, corrosion and cavitation. Silicate free formula shows improved water-pump life over silicate containing coolants.
- **Improved economics**
  Low depletion rates helps eliminate need for additional supplemental coolant additives. Delo ELI Corrosion Inhibitor is a super concentrate and should be diluted to 5.5%-10% with good quality water before use.
- **Heat transfer**
  Non deposit forming formula helps maintain heat transfer efficiencies.
- **Environmentally friendly**
  At the recommended use rate (5.5-10wt% in water), Delo ELI Corrosion Inhibitor has low aquatic toxicity and no long-term effects on the environment. The extended life of the in-use product minimizes the need for frequent disposal, further contributing to the protection of the environment.
- **Stability**
  Shelf life of 1 year. Service life of 6 years minimum.

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Customer benefits and product features *continued…*

Product features

- Delo ELI Corrosion Inhibitor is a water based, extended life corrosion inhibitor based on aliphatic carboxylates that is recommended for use in a wide variety of cooling systems in industrial, on-road, off-road and stationary applications.

  Delo ELI Corrosion Inhibitor is recommended where complete cooling system protection is needed but where freeze protection is not required.

Applications

Delo ELI Corrosion Inhibitor is recommended for use in industrial and commercial cooling systems where the OEM recommends a silicate free, nitrate containing water based corrosion inhibitor system.

Delo ELI Corrosion Inhibitor is recommended for use in Caterpillar and other engine OEM applications where a nitrate containing, silicate free extended life coolant is specified.

- Product Code 510552 – Delo ELI Corrosion Inhibitor Concentrate
- Product Code 510588 – Delo ELI Corrosion Inhibitor Premixed

Product maintenance and handling

Undiluted Delo ELI Corrosion Inhibitor concentrate could potentially be harmful to the environment if spilled or improperly disposed, so care should be taken to prevent such releases.

Delo ELI Corrosion Inhibitor is a water based product and will freeze. This product is not combustible. It is recommended that this product be stored indoors to prevent freezing. If freezing occurs product should be defrosted and agitated before use.

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Typical test data

DELO® ELI CORROSION INHIBITOR TECHNICAL CHARACTERISTICS	METHOD	RESULTS
Inhibitor content		50% w/w
Water content	ASTM D1123	50% w/w
Amine, phosphate, borate, silicate		None
Color		Red
Specific gravity, 20°C	ASTM D1122	1.08 typ.
pH	ASTM D1287	8.3 typ.
Storage stability		1 year

DELO® ELI CORROSION INHIBITOR TECHNICAL CHARACTERISTICS	METHOD	RESULTS AT 5% DILUTION
pH	ASTM D1287	8.3 typ
Foaming properties at 25°C	ASTM D1881	55 ml typ.
Break time		3 sec typ.
Effect on non-metals	GME 60 255	No effect.
Hard water stability	VW PV 1426	No precipitate

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

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Typical test data *conti…*

DELO® ELI CORROSION INHIBITOR ASTM D1384 GLASSWARE CORROSION TEST		
	ASTM D3306 (max)	5% Delo ELI Weight Loss, mg per coupon
Copper	10 max	1.6
Solder	30 max	-0.3
Brass	10 max	1.7
Steel	10 max	0.2
Iron	10 max	1.5
Aluminum	30 max	4.6

ENVIRONMENT, HEALTH, and SAFETY. Information is available on this product in the Material Safety Data Sheet (MSDS) 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 MSDS for this product, visit the Product Information Center.

This Product Data Sheet (PDS) was produced for the Africa, Middle East and Pakistan region in good faith from the best information available at the time of issue. The specific information included may not directly reflect the local market or conditions. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. For the most up-to-date, country-specific information, please contact your local customer service center.