



Delo[®] XLC Clear – Concentrate

High performance extended life antifreeze/coolant

(Supersedes Ursa XLC (Colourless) – Concentrate)

Product description

Delo XLC Clear – Concentrate is a high performance extended life engine antifreeze/coolant, designed to protect from freezing, boiling and cooling system corrosion, and promotes high temperature corrosion resistance in modern aluminium engines.

Delo XLC Clear – Concentrate is an ethylene glycol-based formulation in combination with an advanced non-depleting corrosion inhibitor technology, designed to offer long, low maintenance coolant service life.

Customer benefits

- Advanced non-depleting corrosion inhibitor technology promotes extended low maintenance service life and system uptime
- Mixed fleet application offers protection in excess of 650,000 km in trucks and buses and 32,000 hours in stationary engines
- Promotes reliability and corrosion protection in thermostats, radiators, water pumps and other vulnerable cooling system components
- High performance silicate-and phosphate-free formulation contributes to reliable hard water stability
- Aids high temperature corrosion protection in modern aluminium engines, helping reduce maintenance, downtime and cost

Product highlights

- **Offers low maintenance service life**
- **Designed for in excess of 650,000 km in trucks and buses and 32,000 hours in stationary engines**
- **Formulated to help protect vulnerable system components**
- **Contributes reliable hard water stability**
- **Aids high temperature aluminium corrosion protection**

Selected specification standards include:

ASTM D6210	DAF
Daimler	Isuzu
Jenbacher	MAN
MAN Diesel & Turbo	MTU
Thermo King	Ulstein Bergen
Waukesha	Yanmar

Applications

- Delo XLC Clear – Concentrate is recommended for use in heavy duty and stationary engines that require improved heat transfer performance, cavitation resistance and long-life cooling system protection
- This product is not to be used to protect the inside of potable water systems against freezing

Approvals, performance and recommendations

Performance

- Delo XLC Clear – Concentrate meets the requirements of ASTM D6210

Recommendations

Delo XLC Clear – Concentrate is suitable for use in following engines:

- Daimler
- DAF
- MAN
- MAN Diesel & Turbo
- MTU MTL 5048
- Ulstein Bergen
- Waukesha
- Yanmar
- Thermo King
- Isuzu
- Jenbacher

Product maintenance and handling

Delo XLC Clear – Concentrate should be stored above -20°C and preferably at ambient temperatures. Periods of exposure to temperatures above 35°C should be minimised. It is strongly advised not to expose Delo XLC Clear – Concentrate in translucent packages to direct sunlight because this can result in discoloration over time. Delo XLC Clear – Concentrate should be diluted before use.

As with any antifreeze coolant, the use of galvanized steel is not recommended for pipes or any other part of the storage/mixing installation. Always dispose of used coolant in accordance with local, state and federal guidelines. Delo XLC Clear – Concentrate has a storage shelf life of up to 8 years.

Typical test data			
Test	Test Methods	Results	
Dilution		50/50	100
Shelf Life: 96 months from date of filling indicated on the product label			
Density at 20°C, Kg/L	ASTM D5931	1.068	1.113
Freezing point, °C	ASTM D1177	< -37	NA
Boiling point, °C	ASTM D1120	108	180
pH at 20°C, NUOM	ASTM D1287	8.6	8.7
Reserve alkalinity, mL 0.1N HCl	ASTM D1121	3.1	6.0
ASTM D1384 Glassware Corrosion Test ⁽¹⁾			
Copper, Weight loss, mg/coupon ⁽²⁾	ASTM D1384	N/A	2
Solder, Weight loss, mg/coupon ⁽²⁾	ASTM D1384	N/A	0
Brass, Weight loss, mg/coupon ⁽²⁾	ASTM D1384	N/A	2
Steel, Weight loss, mg/coupon ⁽²⁾	ASTM D1384	N/A	0
Cast iron, Weight loss, mg/coupon ⁽²⁾	ASTM D1384	N/A	-2
Aluminium, Weight loss, mg/coupon ⁽²⁾	ASTM D1384	N/A	5

⁽¹⁾ Data generated on a 33vol% dilution as per the method

⁽²⁾ Negative sign indicates a weight gain

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

Disclaimer Chevron accepts no liability for any loss or damage suffered as a result of using this product for any application other than applications specifically stated in any Product Data Sheet's.

Health, safety, storage and environmental Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application and in accordance with the recommendations provided in the Material Safety Data Sheet (MSDS). MSDS's are available upon request through your local sales office, or via the Internet. This product should not be used for purposes other than its intended use. When disposing of used product, take care to protect the environment and follow local legislation.

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