

RED COOL XL CONCENTRATE

PRODUCT DESCRIPTION

Vertex Red Cool XL Concentrate is a Type A ethylene glycol-based coolant, free from NAPS (Nitrites, Amines, Phosphates, Silicates, Borates, and 2-Ethylhexanoic acid). It utilises a premium formulation of organic acid additive (OAT) as an inhibitor package, specifically engineered for use in diesel and petrol vehicles manufactured in Europe and Japan, as well as heavy-duty vehicles for both on and off-road applications, industrial machinery, and agricultural and construction equipment. This coolant is designed to ensure optimum heat transfer, reducing operational temperatures, and providing maximum protection against foaming, rust, corrosion, cavitation, scaling, oxidation, and degradation of the cooling system. It offers a guaranteed protection period of at least 7 years or 500,000 kilometers, whichever comes first. For heavy-duty diesel engines at a 50/50 dilution ratio, the protection extends up to 7 years, 1,000,000 kilometers, or 20,000 hours, whichever occurs first. Red Cool XL Concentrate meets European standards for phosphate-free formulations and Japanese standards for being silicate and 2-Ethylhexanoic acid-free. It is particularly suitable for use in petrol, light and heavy-duty diesel engines, mining equipment, marine vessels, highway vehicles, both on and off-road, and stationary engines in industrial settings where anti-freeze, anti-boil, and anti-corrosion properties are essential. Additionally, it is recommended for motorcycles, construction and agricultural machinery, wind turbines, and solar farms.

Usage Instructions:

Red Cool XL Concentrate should be diluted to a concentration of 50% volume/volume (vv.) with deionized water to ensure freezing protection. Different dilution ratios are advised for various applications:

- For agricultural, wind turbines, and solar farm applications: Mix at a ratio of 33% vv., providing freezing protection down to -18°C, with a boiling point of 105°C.
- For automotive applications: Mix at a ratio of 50% vv., offering freezing protection down to -37°C, with a boiling point of 107°C.

APPLICATIONS & BENEFITS

- Ethylene glycol-based coolant without NAPS.
- Meets AS2108:2004 Type A requirements.
- Contains OAT inhibitor package for diesel/petrol vehicles, heavy-duty machinery.
- Optimal heat transfer protects against foaming, rust, corrosion, scaling, oxidation.
- 7 years/500,000 km protection, extendable for heavy-duty diesel.
- Meets European phosphate-free, Japanese silicate/2-Ethylhexanoic acid-free standards.
- Compatible with all plastics, rubbers, and seals.
- Suitable for various engines/equipment including motorcycles, wind turbines, solar farms.
- Dilute to 50% vv. with deionized water for freezing protection.
- Different ratios for different applications: 33% vv. for agri/wind/solar, 50% vv. for automotive.

PACK SIZES AVAILABLE

1L, 5L, 20L, 205L

SPECIFICATIONS

- | | | |
|---------------------------|------------------------|----------------------------|
| • AS 2108:2004 Type A | • Audi TL 774-D/F | • BR637 |
| • Fiat 9.55523 | • GM 1825M/1899M/6277M | • JIS K2234 |
| • Opel | • Paccar CSO185 | • Renault 774-D |
| • AFNOR NFR 15-601 Type I | • BAIC Foton Motors | • Bugatti TL774D/F |
| • Ford WSS-M97-B44-D | • Hyundai | • John Deere 8650-4 |
| • ONORM V 5123 | • Peugeot | • Saab |
| • Atlantis Diesel Engines | • Bentley TL774D/F | • Case New Holland MAT3620 |
| • Freightliner 48-25878 | • Jaso 325 | • Komatsu |
| • Nissan NES M5059 | • Porsche | • Scania T1.02-98 0813 |

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- Caterpillar EC-1
- KSM 2142
- Seat TL774-D/F
- Caterpillar MAK A4.05.09.01
- IVECO 18-1830
- Skoda TL774-D/F
- CNH MAT 3624/3724
- Lamborghini TL 774-D/F
- Toyota Long Life TSK2601G
- CHRYSLER MS 12106/ MS 7170
- LIEBHERR MD 1-36-130
- VW TL774-D/F
- CUMMINS CES 14603, 14439
- MAN 324 SNF
- Waukesha 4-1974D
- CUNA NC 956-16
- MACK RVI/ MACK 014 GS 17009
- Volvo
- DAF MAT 74002
- MAZDA MEZ MN 121D
- Daihatsu
- MB 325.3
- Detroit Diesel 93K217/Perkins
- Mini Diesel D
- Deutz DQC CB-14
- Mitsubishi ES-X64217
- Deutz AG 0199-99-1115/AG 0199-99-2091
- MTU MTL 5048
- Ferrari (from 2005)
- Navistar

TYPICAL CHARACTERISTICS

RED COOL XL CONCENTRATE	METHOD	VALUES
Chemical Nature:	Proprietary Formulation	Type A coolant / organic corrosion inhibitors
Appearance	Visual	Clear Liquid without solid matter
Colour	Visual	Red
Density at 20 °C	DIN5175-3	1.11-1.12 g/cm ³
Boiling Point @ mix ratio, %, vv. 50	ASTM D1120	107°C
Freezing point @ mix ratio, %, vv. 50	ASTM D1177	≤-37°C
Freezing point @ mix ratio, %, vv. 33	ASTM D1177	≤-18°C
Reserve Alkalinity, mL	ASTM D1121	3-5
Foam characteristics	ASTM D1188	<50mL/<3s
pH Value	ASTM D1287	8.0-9.5
Miscibility with water	Visual	freely miscible
Hard water stability	Visual	stable, no precipitation
Typical ASTM Corrosion Performance		
Glassware Corrosion Test ASTM D 1384		
Metal and alloy	Weight loss (mg/coupon)	Spec. limit (mg/coupon)
Copper	1	10 max
Solder	0	30 max
Brass	*-1	10 max
Steel	0	10 max
Cast Iron	*-4	10 max
Cast Aluminium	2	30 max
* Negative values mean increase of weight		

ADDITIONAL INFORMATION

- Product needs to be diluted @ 50% vv.
- Always dispose used coolants in accordance with state regulations
- The products contain Bittering agents.
- Product can be stored for 5 years provided container remains sealed.
- Full System Flush is recommended before using this product.

Designed for New Zealand Conditions | Manufactured from virgin base stocks. For more technical information please contact Vertex Lubricants NZ Technical Dept. +64 9 640 0004. Sheet updated 18 March 2024.

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