

## PRODUCT DESCRIPTION

Vertex PG Cool is a biodegradable and non-toxic Type A propylene glycol-based coolant, featuring an advanced hybrid formulation with low inhibitor rate depletion, ensuring prolonged protection without the need for initial or supplemental coolant additives dosage (SCAs). Engineered to deliver exceptional protection against pitting corrosion across a range of heavy and light-duty petrol and diesel engines, stationary power units, marine vessels, and agricultural equipment. The hybrid inhibitor package facilitates optimal heat transfer, resulting in reduced operational temperatures and comprehensive protection against foam formation, rust, corrosion, cavitation, scaling, and oxidation. It offers a protection period of up to 7 years, 1,200,000 kilometers, or 20,000 hours, whichever comes first, when utilised in heavy-duty diesel engines at a 50/50 dilution ratio.

### Usage Instructions:

PG Cool should be diluted to a concentration of 50% volume per volume (vv) with deionized water to ensure adequate freezing protection. Recommended mixing ratio: 50% vv. Provides freezing protection below -28°C and a boiling point of 104°C.

Vertex recommends the use of Deionised Water for dilution purposes.

Ensure that the water utilised adheres to the following specifications:

- Water Hardness: 0 to 20 °dGH
- Chloride Content: Maximum of 100 ppm
- Sulphate Content: Maximum of 100 ppm.

## APPLICATIONS & BENEFITS

- Biodegradable, non-toxic Type A propylene glycol-based coolant.
- Advanced hybrid formulation with low inhibitor rate depletion for long-lasting protection without initial or supplemental coolant additives.
- Provides outstanding pitting corrosion protection for heavy and light-duty petrol and diesel engines, stationary power, marine, farm, on-road trucks, off-road mining vehicles, and marine applications.
- Hybrid inhibitor package ensures optimal heat transfer, reducing temperatures and offering maximum protection against foams, rust, corrosion, cavitation, scaling, and oxidation.
- Offers up to 7 years, 1,200,000 kilometres, or 20,000 hours of protection for heavy-duty diesel engines at a 50/50 dilution ratio.
- Suitable for passenger and light-duty vehicles, ensuring protection for at least 7 years or 500,000 km.
- Compatible with all plastics, rubbers and seals.
- Recommended mix ratio: 50% vv with deionized water.
- Provides freezing protection below -28°C and a boiling point of 104°C.

## PACK SIZES AVAILABLE

5L, 20L

## SPECIFICATIONS

- |                            |                                   |                            |
|----------------------------|-----------------------------------|----------------------------|
| • AS 2108:2004 Type A      | • Detroit Diesel 7SE29            | • Ford WSS-M97B51-A        |
| • ASTM D 3306/4985/6210    | • Federal Specification A-A-8870A | • Freightliner 48-22880    |
| • Caterpillar EC-1         | • Ford ESE-M97B44A                | • GM 6277M, GM Heavy Truck |
| • Chrysler MS7170 & MS9769 | • Ford WSS-M97B44D                | • John Deere               |
| • Cummins 14603            |                                   | • Kenworth                 |

The information contained in this Product Data Sheet is accurate at the time of printing and is subject to change without prior notice.

© Vertex is a registered trademark of Vertex Lubricants NZ Ltd.

- KOMATSU
- Land Rover
- Mack 014 GS 17009
- MAN 324
- MTU MTL 5048
- Navistar/ITE CEMS B-1
- New Holland
- Paccar
- Perkins
- Peterbilt
- Scania
- Terex
- Thermo king
- TMC RP 329/338
- Volvo
- White stars

### TYPICAL CHARACTERISTICS

PG COOL	METHOD	VALUES
Chemical Nature:	Proprietary Formulation	Propylene glycol plus corrosion inhibitors
Appearance	Visual	Clear Liquid without solid matter
Colour	Visual	Red
Density at 20 °C	DIN5175-3	1.03-1.05 g/cm <sup>3</sup>
Boiling Point	ASTM D1120	104°C
Conductivity, mS/cm	>2.0	ASTM D1125
pH Value	ASTM D1287	8.0-10.0
Freezing point @ mix ratio, %, vv. 50	ASTM D1177	-28°C
Foam characteristics	ASTM D1188	<50mL/<3s
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	0	10 max
Steel	*-1	10 max
Cast Iron	0	10 max
Cast Aluminium	0	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.