

PRODUCT DESCRIPTION

Vertex HDD Cool Premix is a ready to use Type A ethylene glycol-based coolant free of 2-Ethylhexanoic acid, phosphates, silicates, and amines featuring an advanced hybrid (HOAT) formulation with low inhibitor rate depletion, ensuring prolonged protection without initial or supplemental coolant additives. Specifically engineered to offer exceptional pitting corrosion protection for heavy and light-duty petrol and diesel engines, stationary power units, marine vessels, and farm equipment. The hybrid inhibitor package guarantees optimal heat transfer efficiency, reducing operational temperatures and providing comprehensive protection against foams, rust, corrosion, cavitation, scaling, and oxidation. Offers a protection period of up to 7 years, 1,200,000 kilometers, or 20,000 hours for heavy-duty diesel engines. Suitable for on-road trucks, off-road mining vehicles, farm machinery, and marine applications. Also suitable for passenger and light-duty vehicles, ensuring protection for at least 7 years or 500,000 km. Ideal for heavy-duty vehicles, offering cylinder liner protection. Ready to use formulation requires no dilution providing freezing protection down to -37°C and a boiling point of 107°C.

APPLICATIONS & BENEFITS

- Ready to use formulation, no dilution required.
- Type A ethylene glycol-based coolant with advanced hybrid (HOAT) formulation.
- Free of 2-Ethylhexanoic acid, phosphates, silicates, and amines.
- Low inhibitor rate depletion ensures prolonged protection without additional additives.
- Engineered for exceptional pitting corrosion protection in heavy and light-duty petrol and diesel engines, stationary power units, marine vessels, and farm equipment.
- Hybrid inhibitor package ensures optimal heat transfer efficiency, reducing temperatures and providing comprehensive 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.
- Suitable for on-road trucks, off-road mining vehicles, farm machinery, marine applications, passenger, and light-duty vehicles.
- Provides cylinder liner protection.
- Freezing protection to -37°C and boiling point of 107°C.

PACK SIZES AVAILABLE

20L, 205L, 1000L IBC

SPECIFICATIONS

- | | | |
|----------------------------------|----------------------------|-------------------------|
| • AS 2108:2004 Type A | • Ford WSS-M97B44D | • Thermo king |
| • Detroit Diesel 7SE298 | • John Deere | • MAN 324 |
| • Freightliner 48-22880 | • Cummins 14603 | • Peterbilt |
| • ASTM D 3306/4985/6210 | • Ford WSS-M97B51-A1 | • TMC RP 329/338 |
| • Federal Specification A-A-870A | • Land Rover | • MTU MTL 5048 |
| • Kenworth | • GM 6277M, GM Heavy Truck | • Perkins |
| • Caterpillar EC-1 | • New Holland | • Volvo |
| • Ford ESE-M97B44A | • Terex | • Navistar/ITE CEMS B-1 |
| • KOMATSU | • Mack 014 GS 17009 | • Scania |
| • Chrysler MS7170 & MS9769 | • Paccar | • White stars |

TYPICAL CHARACTERISTICS

HDD COOL PREMIX	METHOD	VALUES
Chemical Nature:	Proprietary Formulation	Ethylene glycol plus corrosion inhibitors
Appearance	Visual	Clear Liquid without solid matter
Colour	Visual	Yellow
Density at 20 °C	DIN5175-3	1.065-1.075 g/cm ³
Boiling Point	ASTM D1120	107°C
Reserve Alkalinity, mL	ASTM D1121	Min. 2
Conductivity, mS/cm	ASTM D1125	>2.0
pH Value	ASTM D1287	8.0-10.0
Freezing point @ mix ratio, %, vv. 50	ASTM D1177	-37°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	0	10 max
Cast Iron	0	10 max
Cast Aluminium	2	30 max
* Negative values mean increase of weight		

ADDITIONAL INFORMATION

- Premixed product @ 50/50 should be used as purchased. No dilution is required.
- 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.