

PRODUCT DESCRIPTION

Vertex Blue Cool is a formulation primarily composed of Type A ethylene glycol coolant, incorporating a premium phosphate-organic acid additive technology (P-OAT). Specifically engineered for Asian-manufactured vehicles necessitating silicate and borate-free solutions, this coolant excludes Nitrites, Amines, Silicates, Borates, and 2-Ethylhexanoic acid components. Its inhibitor package ensures optimal heat transfer, thereby reducing operational temperatures, while providing maximum protection against foam, rust, corrosion, cavitation, scaling, oxidation, and cooling system degradation. The coolant's efficacy is guaranteed for a minimum of 7 years or 500,000 km, whichever is reached first.

Instruction for use: Vertex Blue Cool is advised to be diluted to a concentration of 50% by volume with deionized water to ensure adequate freezing protection, as described below:

Mix ratio, %, vv. 50

Freezing Protection -37°C

Boiling Point 107°C

Vertex advocates the utilisation of Deionised Water for diluting the coolant concentrate. The water characteristics employed for this procedure should not surpass the following specifications:

- Water Hardness 0 to 20 °dGH
- Chloride Content maximum 100 ppm
- Sulphate Content maximum 100 ppm

APPLICATIONS & BENEFITS

- Exhibits superior heat transfer capabilities, effectively reducing engine operating temperatures.
- Formulation devoid of 2-Ethylhexanoic acid, silicates, borates, nitrites, and amines.
- Conforms to AS2108:2004 Type A specifications.
- Compatible with all plastics, rubbers, and seals, ensuring seamless integration within diverse automotive systems.
- Provides comprehensive corrosion protection for all internal metal surfaces, including aluminium components.
- Offers a lifespan of 7 years or 500,000 km, whichever occurs first, contingent upon proper maintenance and utilization at the recommended concentration levels for passenger vehicles.
- Concentrated coolant necessitates additional dilution with deionised water at a ratio of 50% by volume, or as advised by the manufacturer.

PACK SIZES AVAILABLE

5L, 20L, 205L

SPECIFICATIONS

- | | |
|---------------------------------------|-------------------|
| • AS 2108:2004 Type A | • Lexus |
| • Komatsu Supercoolant - KES 07.892.1 | • Mazda |
| • JIS K 2234-1987 | • Mitsubishi |
| • ASTM 3306 | • Nissan/Infiniti |
| • Ford WSS-M97B55-A | • Scion |
| • Daewoo | • Subaru |
| • Daihatsu | • Suzuki |
| • Honda/Acura | • Toyota |
| • Hyundai | • Kia |
| • Isuzu | • Lancer |

TYPICAL CHARACTERISTICS

BLUE COOL	METHOD	VALUES
Chemical Nature:	Proprietary Formulation	Type A glycol coolant concentrate
Appearance	Visual	Clear Liquid without solid matter
Colour	Visual	Blue
Density at 20 °C	DIN5175-3	1.11-1.13 g/cm ³
Boiling Point	ASTM D1120	107°C
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
Solubility	Hard water stability after 10 days	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	0	10 max
Solder	*-2	30 max
Brass	*-2	10 max
Steel	*-2	10 max
Cast Iron	*-1	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.