

Blue Coolant Premix

Long Life / Heavy Duty (Hybrid Propylene Glycol)

6 years / 1,000,000km / 12,000hrs Protection

Product Information

Blue Coolant Premix is a superior, fully formulated **Hybrid Technology** and **Propylene Glycol** based engine coolant. This Hybrid technology coolant has the advantage of being more robust than both conventional and organic acid technology (OAT) engine coolants. This **low silicate, phosphate** and **amine free** product is recommended for use in automotive (aluminium compatible), light duty and heavy-duty diesel applications namely on-road truck, off-road mining, farm and marine. It provides excellent high temperature aluminium protection.

Blue Coolant Premix is 50% concentration. It does not require an initial charge of supplemental coolant additives (SCAs) upon initial fill in heavy duty diesel applications as the product is specially formulated to protect heavy duty diesel wet sleeve liners. SCA addition is application dependant and should only be added as and when required by the vehicle's OEM. This engine coolant offers the following advantages:

- Contains Propylene Glycol (PG)
- Extended life – no requirement for SCA or coolant extender for up to **6 years, 12,000 hours or 1,000,000 km** whichever comes first. Always follow OEM guidelines regarding coolant system maintenance. Never add SCA or coolant extender unless coolant testing shows it is required.
- No initial SCA requirement at initial fill
- Product is compatible with standard SCAs and coolant extenders
- Low silicate
- Phosphate and amine free
- **Hard water compatible**
- Universal use, recommended for use in all vehicle types
- Product is compatible with both conventional and OAT coolants. Although to get best performance [regarding issues such as extended life and time between SCA additions] it is best to flush the old coolant first.

PRODUCT INFORMATION

Blue Coolant Premix is recommended for use with the following industry specifications and applications:

- ASTM D-6257, D-6211
- Caterpillar
- Cummins
- Detroit Diesel
- Daimler Chrysler
- Ford Heavy Truck
- Freightliner
- GM Heavy Truck
- TMC RP 330
- Toyota Engines
- MTU
- New Holland
- PACCAR
- Peterbilt
- Perkins
- Saab-Scania
- Mercedes Benz
- Kenworth
- Landrover
- MACK Trucks
- US Federal
- MAN
- Volvo Heavy Truck
- White Star

Blue Coolant Premix provides exceptional summer cooling and excellent freezing protection during winter. It should be used without further dilution. Blue Coolant Premix provides excellent value as a propylene glycol based, aluminium compatible, universal, long life engine coolant.

Performance Testing

Coupon	ASTM D-1384 Glassware Corrosion		ASTM D-2570 Simulated Service	
	Test Results ¹	Max. Spec. ¹	Test Results ^{1, 2}	Max. Spec. ¹
Copper	0.4	10	0.2	20
Solder ³	0.4	15	2.9	60
Brass	0.1	10	2.7	20
Steel	+0.3	10	1.3	20
Cast Iron	+1.8	10	+2.7	20
Aluminium	0.9	15	4.4	60

¹ Weight Loss/Coupon (mg).

² Copper/brass radiator results.

³ Regular 70/30 lead on copper/brass coupons.

ASTM Test Procedure

D4340 Heat Rejecting Aluminium Corrosion
D2809 Aluminium Water Pump Cavitation-Erosion Corrosion (rating from 1 to 10)

Test Results

0.16 mg/cm²/wk
8

Specification

1.0 max.
8 min.

Shelf-life stability: minimum 2 years from date of manufacture

PRODUCT INFORMATION

Physical & Chemical Properties

Test	Performance	Test Method
pH 50%	7.5 - 9.0	ASTM D 1287
Reserve Alkalinity (ml)	3 min.	ASTM D 1121
Specific Gravity (15.6°C/60°F)	1.048 - 1.058	ASTM D 1122
Freeze Point	-31°C +/- 2°C	ASTM D 1177
Foaming Volume (ml)	50 max.	ASTM D 1881
Break Time (sec)	5 max.	ASTM D 1881
Flash Point	N/A	ASTM D 92
Fire Point	N/A	
Ash Content (wt. %)	5 max.	ASTM D 1119
Odour	Characteristic	
Colour	Blue	
Total Glycols (Weight %)	50.0 min.	
Inhibitors and Dye (Weight %)	2.50 max.	
Chloride ppm	25 max.	ASTM D 3634
Silicon ppm	95 max. (Due to Silicone from Silicate)	ICP

The performance and physical property data described for this product are typical results not sale specifications except where maximum or minimum is indicated.

Notice: Because use conditions and applicable laws may differ from one location to another and may change with time, the customer is responsible for determining whether products and the information in this document is appropriate for their use and for ensuring that their workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Liberato's warranty is limited to the claims of product meeting stated specifications. It is the responsibility of the end user to determine product suitability as recommended in the Owner's Manual and to follow engine manufacturer's instructions.