



Hi-Tec Oil Traders Pty Ltd ABN 28 053 837 362

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PRODUCT DATA SHEET

PG XL-50 COOLANT

PRODUCT DESCRIPTION

PG XL-50 Coolant is a blue coloured, superior, fully formulated Hybrid technology 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.

PG XL-50 Coolant 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.

- contains Propylene Glycol (PG)
- **Extended life** – no requirement for SCA or coolant extender for up to 4 years, 6000 hours or 500,000 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 and replace with **PG XL-50 Coolant**)

PG XL-50 Coolant provides exceptional summer cooling and excellent freezing protection during winter. It should be used without further dilution. It is recommended for the best balance of protection against freezing, corrosion and summer boil-over.

PG XL-50 Coolant provides excellent value as a propylene glycol based, aluminium compatible, universal, long life engine coolant. Along with this value, Hi-Tec Oils offers you and your customers continuing commitment to:

- • Reliable supply
- • Consistent high-quality product
- • Unsurpassed technology
- • Valuable technical service backup
- • Education on safe use and handling



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PG XL-50 Coolant is recommended for use with the following industry specifications and applications:

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

PG XL-50 Coolant Performance Testing

Coupon	ASTM D-1384 Glassware Corrosion		ASTM D-2570 Simulated Service		
	Type ¹	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. Wt. loss/coupon in mg. 2. Copper/brass radiator results. 3. Regular 70/30 lead on copper/brass coupons.

PG XL-50 Coolant Performance Testing

ASTM Test Procedure	Test Results	Specification
D4340 Heat Rejecting Aluminium Corrosion	0.16 mg/cm ² /week	1.0 maximum
D2809 Aluminium Water Pump Cavitation-Erosion Corrosion (rating from 1 to 10)	8	8 minimum

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





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PG XL-50 Coolant Physical & Chemical Properties

Test	Performance	Test Method
pH	7.5 – 9.0	ASTM D-1287
Reserve Alkalinity (ml)	0.5 – 2.5.	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
Foam Volume (ml)	50 max.	ASTM D-1881
Break Time (sec)	5 max.	ASTM D-1881
Flash Point	107°C/225°F	ASTM D-92
Fire Point	107°C/225°F	
Ash Content (wt. %)	2.5 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 silicon 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.

Item Code: HI8-3370-

Available In: 200Litres, 20Litres, 5 Litres

"Hi-Tec Oil Traders Pty Ltd (Hi-Tec Oils) has endeavoured to ensure that all information, representations and specifications contained in this product data sheet are accurate at the time of publication. This general information should be used in conjunction with appropriate inquiries by users of the product including consultation with the vehicle or equipment manufacturers published information.

It is the responsibility of users of the product to use the product safely. Users should consult the safety data sheets for each product at www.hi-tecoils.com.au. Hi-Tec Oils takes no responsibility for injury or damage if the product is used in an inappropriate or unsafe manner. Our product warranty and product quality statement can be viewed at www.hi-tecoils.com.au"

Effective: December 2014

Expires: December 2016

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