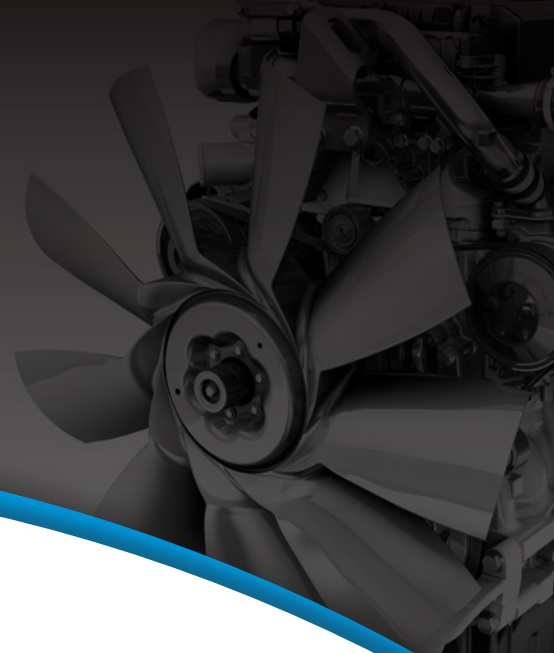


POWER COOL®



HB850 PG 50/50 Premix Coolant

Power Cool HB850 PG Coolant Premix is a blue coloured, low silicate, amine and phosphate free, nitrite based fully formulated hybrid organic acid technology (HOAT) propylene glycol based engine coolant which offers an extended service life and is designed for both heavy and light duty diesel engines.

It has been proven across a range of industrial applications including mining, power generation and rail as well as light and heavy duty on-highway trucks.

Power Cool HB850 PG Coolant Premix Protects coolant system metals from erosion, corrosion and rust and provides excellent wet sleeve liner cavitation protection.

It is recommended for use where an extended service interval is required, it does not require a charge of Supplemental Coolant Additive (SCA) or coolant extender at initial fill. SCA addition is application dependent and should only be added as and when required by the relevant OEM. Its compatibility extends to use with other similarly formulated extended life, low silicate, nitrite containing hybrid engine antifreeze / coolants which allows for a straightforward changeover process.

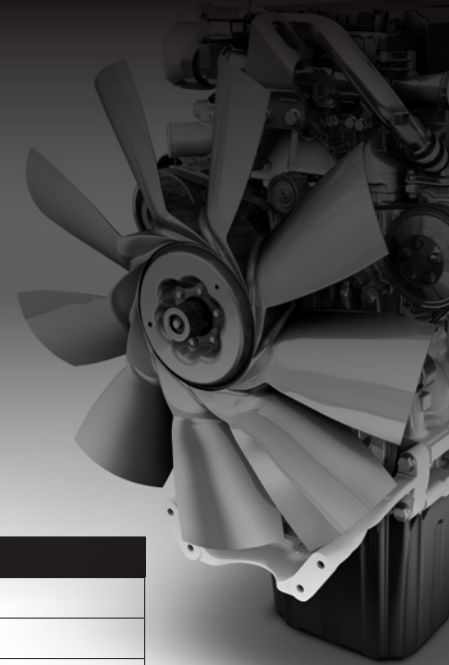
Power Cool HB850 PG Coolant Premix provides protection against low temperature freeze-up or high temperature boil-over and suitable for all season use throughout winter and summer. It provides freeze protection down to -31°C and boil-over protection up to +132°C (with the use of a 100 kPa pressure cap).

Power Cool HB850 PG Coolant Premix offers the following advantages:

- Low silicate
- Phosphate and amine free
- Propylene Glycol based formula
- No initial SCA requirement at initial fill
- Universal use, fully meets or exceeds standard industry requirements for automotive, light duty, and heavy-duty diesel applications
- 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 Power Cool HB850 PG Coolant Premix)
- Product is compatible with standard SCAs and coolant extenders
- Extended life 6 years, 12,000 hours or 1,000,000 km (whichever comes first)*

*Always refer to the OEM maintenance procedures for recommendations regarding drain intervals.

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Power Cool HB850 PG Premix is recommended for use with the following industry specifications and applications:

Recommended and suitable for use with:		
• ASTM D-6257, D-6211	• Landrover	• Saab-Scania
• Caterpillar	• MACK Trucks	• Mercedes Benz
• Cummins	• US Federal	• MAN
• Detroit Diesel	• TMC RP 330	• Volvo Heavy Truck
• DaimlerChrysler	• MTU	• White Star
• Ford Heavy Truck	• New Holland	• Suitable for Toyota engines
• Freightliner	• PACCAR	
• GM Heavy Truck	• Peterbilt	
• Kenworth	• Perkins	

Power Cool HB850 PG Coolant Premix provides excellent value as a universal, long life engine coolant suitable for mixed fleet applications. Along with this value, Penske Australia offers you the following advantages:

- Reliable supply
- Consistent high-quality product
- Unsurpassed technology
- Valuable technical service backup
- Education on safe use and product management to reduce operating costs

For more information on Power Cool Engine Coolants for your application contact your local Penske branch or representative.

Power Cool HB850 PG Premix Coolant Performance Testing

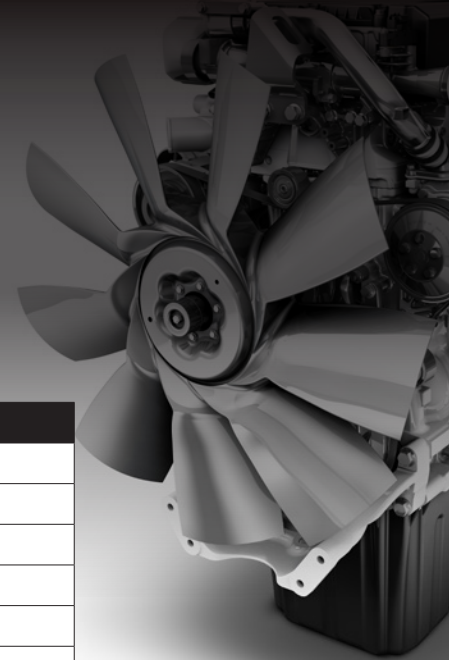
Metal Type ¹	ASTM D 1384 Glassware Corrosion		ASTM D 2570 Simulated Service	
	Test Results ¹	Max. Spec. ¹	Test Results ^{1,2}	Max. Spec. ¹
Copper	0.4	10	0.2	20
Solder ³	0.4	15	2.9	60
Brass	0.1	10	2.7	20
Steel	+0.3	10	1.3	20
Cast Iron	+1.8	10	+2.7	20
Aluminium	0.9	15	4.4	60

Test	Test Results ¹	Specification
ASTM D4340 Heat Rejecting Aluminum Corrosion (mg/cm ² /week)	0.16	1.0 Max.
ASTM D2809 Aluminum Water Pump Cavitation – Erosion Corrosion Rating	8	8 Min.

¹ Wt./loss coupon in mg. ² Copper/brass radiator results.

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

POWER COOL[®]



Power Cool HB850 PG Coolant Premix Physical & Chemical Properties

Characteristic ²	Performance	Test Method
Appearance	Clear and transparent fluid	
Colour	Blue	
pH	7.5 – 9.0	ASTM D1287
Reserve Alkalinity, ml	3.0 min.	ASTM D1121
Specific gravity	1.048 – 1.058	ASTM D1122
Freeze point, °C	-31°C +/-2°C	ASTM D1177
Foam volume, ml	50 max.	ASTM D1881
Foam break time, second	5 max.	ASTM D1881
Ash Content (wt.%)	2.5 max.	ASTM D-1119
Total Glycols (Weight %)	50.0 min.	
Inhibitors and dye (Weight %)	2.5 max.	
Chloride, ppm	< 25	ASTM D3634
Silicon, ppm	< 95 (Due to Silicon from Silicate)	ICP
Shelf Life, (Unopened, original container)	2 years	ASTM D1287

² These characteristics are typical of current production. While future production will conform to Power Cool specification, variations in these characteristics may occur.

Warranty

When added as an initial fill and properly maintained in accordance with engine manufacturer's maintenance recommendation, this product will provide an in-service life of up to 1,000,000 km, 12,000 hours or 6 years, whichever comes first. While deleterious effects are not expected to be significant, mixing with conventional coolants will result in a lower than expected lifetime.

Handling, Storage & Shelf Life

Product should be stored in original container or appropriate dedicated tank or vessel. Although temperature fluctuations will not adversely affect coolant, unused coolant should be stored at ambient conditions. Under

typical conditions and when the container integrity is maintained, product can be stored for up to 2 years without any adverse effect on quality. Product should be agitated before use.

Health, Safety & Environment

For detailed information and recommended practices related to Health and Safety, please refer to the appropriate Safety Data Sheet (SDS). New or spent coolant is never to be disposed of into a septic system, storm sewer or onto the ground. Always dispose coolant in accordance with local, provincial/ state and federal guidelines. Contain any spilled coolant and contact appropriate authorities on appropriate clean-up instructions.

For more information on Power Cool for your application please contact Penske Australia on 1300 688 338

NOTICE: This product is shipped in compliance with applicable laws and regulations regarding classification, packaging, shipping and handling. The performance and physical property data described for this product are typical results not sale specifications, except where maximum or minimum is indicated. Refer to Safety Data Sheets for further information.

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 product and the information in this document are appropriate for their use and for ensuring that their workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Manufacturer's warranty is limited to the claims of product meeting stated performance 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.

Distributed and recommended by



72 Formation Street, Wacol QLD 4076 | penske.com.au
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