

# PowerCool Premix



## Fully Formulated Diesel Engine Coolant 50/50 Premix Containing Ethylene Glycol

Detroit PowerCool Premix Coolant is a special blend of Ethylene Glycol with a pre-charged dose of supplemental coolant additives (SCAs). Making this a fully formulated 50/50 Premix ready to use conventional coolant. Using a proprietary formulation of corrosion inhibitors this product provides superior protection against cavitation erosion, corrosion and scale build up.

PowerCool fully formulated 50/50 Premix engine coolant can be used in mixed fleet applications for both Light & Heavy Duty engines in On Highway, Construction & Industrial, Agricultural market sectors, it provides excellent protection for up to two years, 480,000 km or 4,000 hours (whichever occurs first) use and maintain per engine manufacturer's recommendations.

### Features and Benefits:

PowerCool provides excellent corrosion, anti freeze / boil protection and also includes the following benefits:

- Low silicate
- Phosphate and amine free
- No initial SCA requirement at initial fill
- Aluminium compatible
- Compatible with other conventional fully formulated engine coolants
- Compatible with supplemental coolant additives (SCAs)

PowerCool has been designed to meet or generally exceed the performance requirements of the following engine coolant specification:

- ASTM D-3306, D-4985, D-6210
- SAW J1034, J1941
- Caterpillar (other than EC-1)
- Chrysler MS 7170
- Cummins
- Detroit 7SE 298
- Ford ESE-M97B44A, ESE-M97B18C
- GB 1825M, 1899M
- Kenworth RO26-170-97
- Mack Trucks
- New Holland WSN-M97B18-D
- PACCAR
- Peterbilt 8502.002
- Volvo/GM Heavy Truck
- TMC RP 329
- US Fed A-A-870-A

**LONG-LIFE HEAVY-DUTY COOLANTS**



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PowerCool 50/50 is pre-charged with SCAs, it contains a low silicate, non-phosphate formula that helps prevent inhibitor dropout, scale deposits, and gel problems frequently associated with diesel engine cooling systems.

For best overall protection use PowerCool Premix 50/50, to increase SCA level use Detroit spin-on filter P/no; 23507545 test at next scheduled oil change interval and repeat procedure if required.

### Performance testing results

Coupon	ASTM D 3306/4985 Glassware Corrosion		ASTM D 2570-94 Simulated Service	
	Test Results*	Max. Spec.*	Test Results*#	Max. Spec.*
Copper	0.5	10	+0.6	20
Solder	4.1	30	13.8	60
Brass	0.9	10	2.0	20
Steel	1.0	10	+0.4	20
Cast Iron	+4.6	10	+6.1	20
Aluminium	+1.7	30	0.5	60

\* Wt. Loss/Coupon (mg)

# Copper/brass radiator

### Performance testing results (continued)

Astm Test Procedure	Test Results	Specification
D4340-89 Heat Rejecting Aluminium Corrosion	0.2mg/cm <sup>2</sup> /week	1.0 maximum
D2809-94 Aluminium Water Pump Cavitation-Erosion Corrosion (rating from 1 to 10)	8	8 minimum

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### Physical and Chemical Properties

Test	Performance	Test Method
pH	10.0 – 11.0	ASTM D-1287
Reserve Alkalinity (mL)	5 min.	ASTM D-1121
Specific Gravity (15.6°C/60°F)	1.07 – 1.08	ASTM D-1122
Freeze Point	-37°C/-34°F max.	ASTM D-1177
Foaming Properties – Volume	50 max.	ASTM D-1881
Foaming Properties – Break Time	5 max.	ASTM D-1881
Flash Point	116°C/240°F	ASTM D-92
Ash Content (weight %)	2 max.	ASTM D-1119
Odour	Characteristic	
Colour	Fuchsia Pink	
Shelf Life	2 years	
Chloride (ppm)	25 max.	
Silicon (ppm)	110 max.	ICP

The performance and physical property data described for this product are presented in good faith and believed to be reliable; however, they should be considered as typical results and not as sale specifications.

Note: 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. This 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.

**For more information on PowerCool for your application  
please contact Penske Power Systems 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 is typical results not sale specifications, except where maximum or minimum is indicated. Refer to Material Safety Data Sheets for further information.

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