



Jan'14

## Product Data Sheet

### RECOCHEM HEAVY DUTY DIESEL ENGINE COOLANT PREMIX

Recochem Heavy Duty Diesel Engine Coolant Premix is a red coloured, superior, fully formulated Hybrid technology 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, farm and marine. It provides excellent high temperature aluminium protection.

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 coolant is compatible with coolant filters and heavy duty diesel SCAs and coolant extenders. Advantages:

- Low silicate
- Phosphate and amine free
- OEM approved
- Hard water compatible
- 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 Recochem Heavy Duty Diesel Engine Coolant)
- Product is compatible with standard SCAs and coolant extenders
- extended life 6 years, 12,000 hours or 1,000,000 km whichever comes first

Recochem Heavy Duty Diesel Engine Coolant Premix meets or exceeds the performance requirements of the following engine coolant specifications:

- ASTM D-3306, D-4985, D-6210
- Caterpillar EC1
- Cummins 14603
- Detroit Diesel 7SE 298
- DaimlerChrysler MS 7170, MS 9769
- Ford ESE-M97B44A, ESE-M97B18-C, Ford WSS-M97B51-A1
- Freightliner 48-2288D
- GM 1825M, 1899M, GM Heavy Truck
- Hyundai
- JIS K2234
- Kenworth RO26-170-97
- Landrover
- MACK Trucks
- MAN 324
- Mercedes Benz DBL 325
- MTU MTL 5048
- New Holland WSN-M97B18-D
- PACCAR
- Peterbilt 8502.002
- Perkins
- Saab-Scania 6901
- SAE J1034, J1941
- TMC RP 329
- Volvo Heavy Truck
- White Star
- US Federal A-A-870-A

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Recochem Heavy Duty Diesel Engine Coolant Premix is also approved by the following OEMs:

MTU	Detroit Diesel
Daimler Chrysler	

Recochem Heavy Duty Diesel Engine Coolant Premix provides exceptional summer cooling and excellent freezing protection during winter. Recochem Heavy Duty Diesel Engine Coolant Premix provides excellent value as an aluminium compatible, universal, long life engine coolant.

### Recochem Heavy Duty Diesel Engine Coolant Premix

#### Performance Testing

Coupon	ASTM D-1384 Glassware Corrosion		ASTM D-2570 Simulated Service		
	Type <sup>1</sup>	Test Results <sup>1</sup>	Max. Spec. <sup>1</sup>	Test Results <sup>1,2</sup>	Max. Spec. <sup>1</sup>
Copper		1.7	10	1.1	20
Solder <sup>3</sup>		4.3	30	21.6	60
Brass		0.6	10	1.6	20
Steel		0.1	10	+0.8	20
Cast Iron		+0.8	10	+1.2	20
Aluminium		+0.3	30	+2.5	60

1. Wt. /loss coupon in mg. 2. Copper/brass radiator results. 3. Regular 70/30 lead on copper/brass coupons.

### Recochem Heavy Duty Diesel Engine Coolant Premix

#### Performance Testing

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

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

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#### Physical & Chemical Properties

Test	Performance	Test Method
pH	7.6 - 8.5	ASTM D-1287
Reserve Alkalinity (ml)	3 min.	ASTM D-1121
Specific Gravity (15.6°C/60°F)	1.065 - 1.075	ASTM D-1122
Freeze Point	-37°C/-34°F	ASTM D-1177
Foam Volume (ml)	50 max.	ASTM D-1881
Break Time (sec)	5 max.	ASTM D-1881
Flash Point	116°C/240°F	ASTM D-92
Fire Point	120°C/248°F	
Ash Content (wt. %)	2.5 max.	ASTM D-1119
Odour	Characteristic	
Colour	Red	
Total Glycols (Weight %)	50.0 min.	
Inhibitors and dye (Weight %)	2.5 max.	
Chloride ppm	25 max.	ASTM D-3634
Silicon (ppm)	93 max.	ICP

The performance and physical property data described for this product is 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. Recochem'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.

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