



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

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## PRODUCT DATA SHEET

### Heavy Duty Diesel Engine Coolant Concentrate (Green)

**Hi-Tec Heavy Duty Diesel Engine Coolant Concentrate (Green)** is a luminescent yellow, 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.

**Hi-Tec Heavy Duty Diesel Engine Coolant Concentrate (Green)** 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 of using **Hi-Tec Heavy Duty Diesel Engine Coolant Concentrate (Green)**:

- 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 **Hi-Tec Heavy Duty Diesel Engine Coolant Concentrate (Green)**)
- Product is compatible with standard SCAs and coolant extenders
- extended life 6 years, 12,000 hours or 1,000,000 km whichever comes first

**Hi-Tec Heavy Duty Diesel Engine Coolant Concentrate (Green)** 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

**Hi-Tec Heavy Duty Diesel Engine Coolant Concentrate (Green)** is approved by: MTU, Detroit Diesel and Daimler Chrysler



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**Hi-Tec Heavy Duty Diesel Engine Coolant Concentrate (Green)** provides exceptional summer cooling and excellent freezing protection during winter. It provides excellent value as an aluminium compatible, universal, long life engine coolant.

## 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.

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

## Physical & Chemical Properties

Test	Performance	Test Method
pH	7.6 - 8.5	ASTM D-1287
Reserve Alkalinity (ml)	6 min.	ASTM D-1121
Specific Gravity (15.6°C/60°F)	1.125 - 1.135	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. %)	5 max.	ASTM D-1119
Odour	Characteristic	
Colour	Luminescent Yellow	
Total Glycols (Weight %)	94.0 min.	
Inhibitors and dye (Weight %)	5.0 max.	
Total Apparent Water (Weight %)	3.5 max.	
Chloride ppm	25 max.	ASTM D-3634
Silicon (ppm)	185max.	ICP



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

**Item Code:** HI8-3205-  
**AVAILABLE IN:** 200 Litres, 20 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](http://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](http://www.hi-tecoils.com.au)"

**EFFECTIVE:** October 2014

**EXPIRES:** October 2016

GH410192/1



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