



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

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Ph: 1300 796 009 | Fax: (02) 9604 1611 | Email: hitecoils@hi-tecoils.com.au

www.hi-tecoils.com.au

PRODUCT DATA SHEET

DD 50 COOLANT GREEN (Hi-Tec Heavy Duty Diesel Engine Coolant Premix)

Hi-Tec DD50 Coolant Green is a heavy duty diesel engine coolant premix, luminescent yellow in colour, 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 DD50 Coolant 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 DD50 Coolant 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 DD50 Coolant 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 DD50 Coolant Green meets or exceeds the performance requirements of the following engine coolant specifications:

- | | |
|--|----------------------------|
| • ASTM D-3306, D-4985, D-6210 | • MAN 324 |
| • Caterpillar EC1 | • Mercedes Benz DBL 325 |
| • Cummins 14603 | • MTU MTL 5048 |
| • Detroit Diesel 7SE 298 | • New Holland WSN-M97B18-D |
| • DaimlerChrysler MS 7170, MS 9769 | • PACCAR |
| • Ford ESE-M97B44A, ESE-M97B18-C, Ford WSS-M97B51-A1 | • Peterbilt 8502.002 |
| • Freightliner 48-2288D | • Perkins |
| • GM 1825M, 1899M, GM Heavy Truck | • Saab-Scania 6901 |
| • Hyundai | • SAE J1034, J1941 |
| • JIS K2234 | • TMC RP 329 |
| • Kenworth RO26-170-97 | • Volvo Heavy Truck |
| • Landrover | • White Star |
| • MACK Trucks | • US Federal A-A-870-A |
| • Kubota Extended Life Premix Coolant | • Deutz 0199-99-1115/6 |



AUSTRALIAN FAMILY OWNED SINCE 1989





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Hi-Tec DD50 Coolant Green is approved by:

MTU

Detroit Diesel

Daimler Chrysler

Hi-Tec DD50 Coolant Green provides exceptional summer cooling and excellent freezing protection during winter. It provides excellent value as an aluminium compatible, universal, long life engine coolant.

Hi-Tec DD50 Coolant Green 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		1.7	10	1.1	20
Solder ³		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 ² /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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Hi-Tec DD50 Coolant Green 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	Luminescent Yellow	
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.

Item Code: HI8-3090-
AVAILABLE IN: 200Litres, 20Litres

“The facts stated and the recommendations made herein are believed to be accurate. No guarantee of their accuracy is made however, and unless otherwise expressly provided for in written contract, the product is sold without conditions or warranties, expressed or implied. Purchasers should determine the suitability of such products for their particular use. “

EFFECTIVE: June 2013
EXPIRES: June 2015
EH316021/1



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