



PRODUCT DATA SHEET

HEAVY DUTY CONCENTRATE (GREEN)

PRODUCT DESCRIPTION

Heavy Duty 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.

Heavy Duty 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.

BENEFITS

The benefits of using **Heavy Duty 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 **Heavy Duty 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

SPECIFICATIONS

Heavy Duty Concentrate (Green) meets or exceeds the following demanding performance requirements:

- 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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Heavy Duty Concentrate (Green) is approved by:
MTU, Detroit Diesel and Daimler Chrysler

Heavy Duty 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.

Always consult your vehicle owner's manual for the manufacturer's recommendations.

TYPICAL PROPERTIES

Property	Test Method	Results
pH	ASTM D-1287	7.6 - 8.5
Reserve Alkalinity (mL)	ASTM D-1121	6 min.
Specific Gravity (15.6°C/60°F)	ASTM D-1122	1.125 - 1.135
Freeze Point	ASTM D-1177	-37°C/-34°F
Foam Volume (mL)	ASTM D-1881	50 max.
Break Time (sec)	ASTM D-1881	5 max.
Flash Point	ASTM D-92	116°C/240°F
Fire Point		120°C/248°F
Ash Content (% wt)	ASTM D-1119	5 max.
Odour		Characteristic
Colour		Luminescent Yellow
Total Glycols (% wt)		94.0 min.
Inhibitors and dye (% wt)		5.0 max.
Total Apparent Water (% wt)		3.5 max.
Chloride (ppm)	ASTM D-3634	25 max.
Silicon (ppm)	ICP	185max.

PERFORMANCE TESTING

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



AUSTRALIAN FAMILY OWNED SINCE 1989





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Coupon	ASTM D-1384 Glassware Corrosion		ASTM D-2570 Simulated Service	
	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.

Available in: Bulk, 1000 Litres, 200 Litres and 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. 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"

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