



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

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PRODUCT DATA SHEET

DD50 COOLANT RED

PRODUCT DESCRIPTION

DD50 Coolant Red is an ethylene glycol based antifreeze/coolant premix incorporating an advanced formula technology with virtually non-depleting organic acid corrosion inhibitors. The product is dyed a distinctive red colour for ready identification. It is silicate free for improved pump life and contains no environmentally harmful nitrates, borates, phosphates, amines or nitrites.

DD50 Coolant Red is compatible with conventional coolants and can be used for top-up of conventional coolants. If the product is to be mixed with some heavy duty diesel coolants, the user must continue to add SCA's (Supplementary Coolant Additives) for heavy-duty service until the next coolant change-out. **DD50 Coolant Red** satisfies or exceeds many major standards and is recommended for major European, Japanese and US car and heavy-duty diesel engines. **DD50 Coolant Red** can be added directly to the cooling system as a top-up adjustment of the freeze point of the cooling water.

APPLICATION

DD50 Coolant Red is recommended for use in aluminium alloy petrol powered automotive engines, and in heavy duty diesel and natural gas mobile and stationary engines.

Provided the correct dosage of **DD50 Coolant Red** is maintained, flush and change the passenger car/light duty commercial vehicle cooling system contents every 5 years or 250,000 km. For heavy-duty diesel engines, **DD50 Coolant Red** more than doubles the life of conventional coolants to 500,000 km / 6,000 hours / 5 years; at the same time providing excellent protection against cylinder liner cavitation corrosion/erosion.

PRODUCT BENEFITS

Advantages of using **DD50 Coolant Red** include:

- Can be used in most OEM diesel, petrol and natural gas engines allowing one coolant to be inventoried. The product lasts up to 3 times as long as conventional coolants.
- Reduces engine coolant cost by up to 60% over conventional coolants.
- Service life of up to 1,000,000 kms for truck engines, and up to 12,000 hours or 6 years (whichever comes first) for machine/commercial engines (when topped up with a once only coolant extender at the end of its initial service life).
- For automotive engines, drain at 250,000 km or 5 years, whichever comes first.
- Contains no silicates or environmentally harmful borates, phosphates, amines or nitrates.
- Hard water deposits and scale from silicate drop out in the cooling system are practically eliminated.
- The low level of total dissolved solids improves water pump seal life and prevents gel formation.
- Excellent heat transfer and superior aluminium protection at high operating temperatures.
- The combination of organic carboxylate inhibitors offers excellent protection against cast iron cylinder liner and block pitting and cavitation corrosion/erosion.



AUSTRALIAN FAMILY OWNED SINCE 1989





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RECOMMENDATIONS

DD50 Coolant Red is recommended for heavy duty engines manufactured by Cummins, Caterpillar, Detroit Diesel, Mack-RVI, Mercedes Benz, Scania, MTU, Komatsu and other OEM's. It is recommended where the following performance levels are cited:

ASTM D-3306 (and D-4656)	MAN 324 (Diesel Engines)
ASTM D-4985 (and D-5345)	VOLVO
ASTM D-6210	Scania (Tech Info. TI 02-98)
BS 6580 (British Standard)	Mercedes-Benz Sheet 325.3
UNE 26-361-88/1	Mack-RVI
FVV Heft R443 (Germany)	Caterpillar EC-1
NATO S-757	Cummins 90 T8-4
BT-PS-606A (MIL-Belgium)	Detroit Diesel/Perkins
E/L-1415b (MIL-Italy)	Komatsu
SAE J1034	General Motors GM 6277M
JIS K2234 (Japan) LLC	General Motors GM 1899M
JASO M325 (Japan) LLC	Ford WSS-M97B44-C
Afnor R15-601	Volkswagen VW TL774D
Önorm V5123	Audi/SEAT/Skoda
BR 637	ISUZU
DCEA 615 (MIL-France)	BMW N600 69.0
FSD 8704 (MIL-Sweden)	SAAB
AS/NZS 2108.1:1997 (Australian Standard) Type A	DAF-Leyland 74001
Navistar	Mazda MES 121C
Mitsubishi ES-X64216	Toyota TS K2601 G
Honda	Daihatsu
Hyundai	Subaru

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

TYPICAL PROPERTIES

Property	Typical Results
Colour	Red
pH Neat	7.6 – 9.0
Ethylene Glycol content (min % wt)	47.0
Reserve Alkalinity, mL (pH 5.5)	0.5 – 2.5
Density @ 20°C (g/mL)	1.060 - 1.080
Boiling Point (°C)	172
Freezing Point (max °C) (Neat = 50 % vol solution)	<- 37

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

DD50 Coolant Red antifreeze/coolant must be used neat into the engine cooling system. When 103 kPa radiator pressure cap is employed, it will provide anti-freeze protection down to -37°C and anti-boil protection up to 129°C.



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Do not mix **DD50 Coolant Red** coolant with other coolant products as the extended life benefits will be reduced. If mixed with more than 15% of conventional coolant, treat the cooling system as if it contains the conventional coolant or drain and flush the system and refill with **DD50 Coolant Red**.

CHANGEOVER

Always start off with a clean cooling system by using a radiator flush or similar commercial cleaner at the changeover (especially if previously using conventional coolants). After draining the cleaner, flush thoroughly with clean water.

Inspect the cooling system. Make necessary repairs and tighten all hose connections.

The coolant should be changed out at overhaul or 5 years. Always dispose of the used coolant in accordance with local, state and federal guidelines.

Because **DD50 Coolant Red** is silicate free, the product can be stored for up to 8 years with no problem.

SAFETY AND HANDLING

The product contains ethylene glycol and is a Schedule 5 poison. Please read the Safety Data Sheet (SDS) before opening the container and using the product.

Available in: Bulk, 1000 Litres, 200 Litres, 20 Litres and 5 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"

Item code: HI8-3100

Effective: February 2020

MR022072/1



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