

## PRODUCT DATA SHEET

# PROGUARD HDD COOLANT (CONCENTRATE)

## DESCRIPTION

Proguard HDD Coolant is a heavy duty full formulation hybrid anti boil/anti-freeze coolant with nitrite chemistry recommended for use in heavy duty diesel engines and light duty diesel. It is a combination of organic technology corrosion inhibitors with conventional heavy duty chemical inhibitors common to USA technology for compliance with Cummins, Detroit and CAT equipment that contain low silicate, nitrite, nitrate and molybdate. The technology used in this coolant is suitable for typical measuring techniques.

Proguard HDD in concentrate form contains 90% monoethylene glycol and a heavy duty inhibitor package ensuring ultimate corrosion protection and extended service life when compared with conventional coolants. Proguard HDD contains extreme levels of rust and corrosion protection in combination with advanced coolant technology to provide a superior quality coolant. Proguard HDD protects all metals found in cooling systems and gives excellent protection against "hot spot" corrosion common in aluminium cylinder heads, diesel engine wet sleeve liner pitting and eliminates hard water scale deposits. Proguard HDD is suitable where SCA filters are recommended or required and has no deleterious effects on hoses, silicon seals or gaskets.

This product is coloured Red.

## APPLICATION

Proguard HDD is recommended for use in marine engines, earthmoving, mining, bus companies, heavy transport and commercial fleet operations. It has a service life of up to 6 years / 1,000,000kms in heavy duty diesels. Service intervals are 1 year / 4,000 hours. There are obvious environmental advantages as a result of fewer coolant changes. This product is typically used as a 50/50 mix with demineralised water.

## PHYSICAL PROPERTIES

Appearance	Red
pH	8.0 – 9.7
Glycol by weight	90.8%
Specific Gravity	1.11 – 1.13
Boiling Point °C	179
Freezing Point °C	N/A
Glassware Corrosion Test	Pass
Aluminium Corrosion Test	Pass
Water Pump Cavitation Test	Pass
AI Heat Reject Test, ASTM D4340, mg/cm <sup>2</sup> /week (1.0 max)	0.3
DG Class	Non DG

The above data is typical and does not constitute a specification.



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## **STANDARDS**

### **Specifications for Medium and Heavy duty Diesel Engines**

TMC RP-338 Extended Life	TMC RP-330	ASTM D 3306, D4985, D5216,D6210
Caterpillar® EC-1	Caterpillar® ELC	Case New Holland®
Cummins® Bulletin 3666132	Cummins® CES 14603	Cummins® ES Compleat
Detroit Diesel® Bulletin 7SE298	EMD M.I. 1748E	GM® 1899
Japanese JS K 2234	Iveco® Cursor Engine	CID – A – A - 52624
SAE J 1034 and JASO M 324	Freightliner 48 - 22880	Komatsu® AF-NAC
Mercedes Benz® DBL 7700	Navistar®	PACCAR
John Deere® 8650-5	John Deere® JDM HD24	Waukesha 4-1974-D
Saab Scania® 6901	Volvo® (Spec No. 1286083)	BMW® N 600 69.0

## **CONTAINER SIZES**

1000 Litres IBC, 200 Litres, 20 Litres

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