

Heavy Duty Plus 50

Premixed Antifreeze / Coolant

PRODUCT OVERVIEW

PrixMax Heavy Duty Plus 50 is a ready to use superior, fully formulated anti-freeze / anti-boil heavy duty coolant that utilises a long drain, low depletion rate inhibitor system, and does not require an initial charge of SCA. This low silicate Hybrid Technology formulation is phosphate and amine free, and has been specifically engineered for use in heavy duty applications, including trucks, buses, agricultural equipment, construction equipment and stationary engines. This coolant provides excellent protection for heavy duty diesel wet sleeve liners and is compatible with heavy duty SCAs, coolant filters and other fully formulated engine coolants. Pre-diluted with demineralised water, this coolant can be poured directly into the cooling system as a complete service refill or top-up, and is ideal for use where good quality water is not available.

PRODUCT BENEFITS

- Contains nitrites and molybdates for additional cylinder liner protection
- Suitable for mixed fleets where heavy duty and light trucks are present
- Protects against winter freeze up and minimises the chance of summer boil over
- Low silicate formulation suitable for European, USA and Japanese turbocharged and naturally aspirated heavy duty diesel engines operating in highway and off-road environments
- Amine free
- Compatible with most antifreezes and other heavy duty coolants
- Excellent corrosion protection for all alloys used in engine components such as radiator, engine block, cylinder head, water pump and cast iron wet liners

APPLICATIONS

PrixMax Heavy Duty Plus 50 is recommended for the following applications:

- European, USA and Japanese turbocharged and naturally aspirated heavy duty diesel engines operating in highway and off-road environments
- Heavy duty engines manufactured by Cummins, Caterpillar, Mack, Komatsu and other OEMs
- Stationary engine applications
- Marine cooling systems where freeze protection is needed and a nitrite containing coolant is recommended

SERVICE LIFE

Equipment Type	Maximum Service Life*
Heavy Duty Engines (on-road and off-road)	5 YEARS or 650,000KMS or 12,000 HOURS

*Whichever comes first, provided a complete flush and fill is performed, the product is not diluted and specified use and maintenance directions followed. Routine visual inspections, coolant top-off and annual coolant testing are recommended to ensure maximum service life

Service life intervals can be extended when combined with our Coolcheck® scheduled laboratory coolant analysis service.

PERFORMANCE STANDARDS AND TESTING

PrixMax Heavy Duty Plus 50 is recommended for use in, or where the following performance standards or specification requirements are cited:

- ASTM D3306, D4985 and D6210
- Caterpillar
- Cummins CES 14603
- Detroit Diesel 7SE298
- Freightliner
- GM 1825M and 1899M
- International
- Isuzu
- John Deere 8650-5
- Komatsu
- Mack Trucks
- MTU 4000 Series Engines
- Navistar
- PACCAR
- SAE J1034
- TMC RP 329 and RP 338
- Volvo

TECHNICAL CHARACTERISTICS

Property	Method	Typical Results
Colour		Blue
pH	ASTM D1287	8.0 – 10.0
Ethylene Glycol, wt%		46.5
Density, g/ml, 20°C	ASTM D1122	1.07
Storage Stability		18 months

Technical Characteristics are typical of those obtained with normal production tolerance. Variations in product typical results are to be expected during normal manufacture.

MAINTENANCE

Service Considerations

PrixMax Heavy Duty Plus 50 should be used as manufactured with a non-chemical coolant filter and dosed directly to the engine cooling system. No further dilution is recommended. For annual maintenance of the cooling system chemical balance, add 10 ml of PrixMax Heavy Duty Plus Booster SCA per litre of system capacity (or 1% dose of PrixMax Heavy Duty Plus Booster) and a non-chemical coolant filter every 12 months. PrixMax Heavy Duty Plus may also be used with Supplemental Coolant Additive (SCA) charged coolant filters available in the market and appropriate for the particular engine model. Normal maintenance schedules should be used throughout the service period.

Freezing and Boiling Protection

PrixMax Heavy Duty Plus 50	Water	Freeze Protection	Boil Protection*
1 part	Nil	-37°C	129°C

*with a 103 kPa radiator pressure cap

General

- For true long-life protection, do not mix PrixMax Heavy Duty Plus 50 with other coolant products as the extended life benefits will be reduced.
- Topping-up the cooling system should only be done with PrixMax Heavy Duty Plus 50 (or PrixMax Heavy Duty Plus Concentrate if the glycol level is low).
- The cooling system should be changed out at overhaul or every 5 years or 650,000kms or 12,000 hours whichever occurs first subject to laboratory test results.
- When changing to PrixMax Heavy Duty Plus 50 always start off with a clean coolant system using PrixMax Radiator Flush or similar commercial cleaner at the change interval 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.
- Always dispose of the used coolant in accordance with local, state and federal guidelines.
- The engine coolant should be analysed using the PrixMax Coolcheck® monitoring program at least annually to determine the overall condition of the coolant and cooling system.
- A basic coolant maintenance check every oil change or 250 service hours can be performed using PrixMax Coolant Test Strips or a hand-held glycol refractometer to identify problems with maintenance procedures and operational practices.

Mixing

- PrixMax Heavy Duty Plus 50 is compatible with most antifreezes and other heavy duty coolants and can be used for top-up of conventional coolants but the user must continue to add SCAs or charged filters for heavy-duty service until the next coolant change out. Before mixing PrixMax Heavy Duty Plus with other coolants contact the Coolcheck® laboratories.

- The PrixMax Customer Service & Technical Training Group provides specialist advice on the maintenance of engine cooling systems and coolant products application support.

STORAGE AND HANDLING

PrixMax Heavy Duty Plus 50 engine coolant should be stored above -20°C and preferably at ambient temperatures. Periods of exposure to temperatures above 35°C should be minimised.

Provided the product is stored in accordance with good practice as above in unopened, new containers, the coolant has a shelf life of around 18 months. The use of galvanised steel is not recommended for any part of the storage/mixing process.

PACK SIZES

Part No	Pack Size
HDPLUS50-P20	20 litre
HDPLUS50-D205	205 litre
HDPLUS50-B1000	1,000 litre

Please contact us for further enquiries.

TOXICITY AND SAFETY

Warning: PrixMax Heavy Duty Plus 50 contains ethylene glycol, which is harmful or fatal if swallowed. Avoid eye or skin contact. For advice, contact a Poisons Information Centre (eg Australia 13 11 26; NZ 0800 764 766) or a doctor at once. If swallowed, do NOT induce vomiting. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre (eg Australia 13 11 26; NZ 0800 764 766) or a doctor, or for at least 15 minutes. Seek medical attention if irritation persists.

Further ENVIRONMENT, HEALTH and SAFETY Information is available on this product in the **Safety Data Sheet (SDS)**. Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal. To obtain the SDS for this product, please contact us.

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