



Shell HD Premium 50% Pre-Diluted Antifreeze/ Coolant

'Ready-to-use' Long-Life Hybrid Silicated Organic Acid Technology Coolant Pre-Diluted 50%

Shell HD Premium 50% Pre-Diluted Antifreeze/ Coolant is a low silicate, phosphate-free, nitrite free, and amine-free, fully formulated, hybrid organic acid technology automotive and heavy-duty diesel engine coolant. This product does not require a charge of supplemental coolant additive (SCA) during the initial fill. The product is pre-diluted and is ready to use.

Shell HD Premium 50% Pre-Diluted Antifreeze/ Coolant is designed for use in both automotive and heavy-duty applications.

Applications

Shell HD Premium 50% Pre-Diluted Antifreeze/ Coolant can be used in both automotive and heavy-duty applications, and is compatible with heat rejecting aluminium surfaces. This product is 'ready-to-use' and should not be diluted further with water. It is suitable for use in both Petrol and Diesel powered engines.

This product is particularly suited in applications which require a hybrid technology which is low-silicated, and NAP Free (nitrites/ amines/ phosphates free).

Performance Features and Benefits

- **Long life hybrid organic acid technology**

In Petrol Engine applications, this product is suitable for up to 5 years or 250,000km, whichever comes first. In Diesel applications, the product is suitable for up to 6 years, 500,000km or 12,000hr lifetime whichever comes first.

- **NAP free**

Product is free of nitrite, amine and phosphate and as such meets the basic requirements of European OEM's.

- **Liner cavitation protection**

This product provides excellent liner cavitation protection (without the use of nitrites) as shown through the Deere Liner Cavitation Test, ASTM D7583.

- **No initial charge SCA requirement**

When used in long haul or heavy-duty applications, there is no need to add an initial charge of SCA to the fresh coolant.

- **Universal use**

Product can be used in all engine types including automotive, light and heavy duty gasoline and diesel engines. Applications include on-road, off-road, farm, construction and mining equipment

- **Widely compatible with other coolants**

Product is widely compatible with other engine coolants; although to get best performance (regarding issues such as long life and time between SCA addition), it is best to flush the old coolant and replace with Reco-Cool HD Premium 50% Pre-Diluted Antifreeze/ Coolant.

Specifications and Approvals

Shell HD Premium 50% Pre-Diluted Antifreeze/ Coolant is recommended for use where the following engine coolant specifications are required:-

ASTM	D3306 / D4985 / D6210-10 / D7583
AS/NZS	2108:2004 Type A
SAE	J1034/J1941
Chrysler	MS9769
Cummins	Bulletin 3666132
Caterpillar	EC-1
DDC	7SE 298 / 93K217
Freightliner	
GM	1825M / 1899M / Heavy Truck
JIS	K2234
MAN	324
MTU	MTL 5048
MB	DBL 7700.00
Saab/Scania	6901
Renault	Type D
VW	TL 774C





Health & Safety

Guidance on Health and Safety is available on the appropriate Safety Data Sheet, which can be obtained from your Recochem representative.

Protect the Environment

Take used coolant products to an authorised collection point. Do not discharge into drains, soil or water.

Shelf Life

When stored undercover, away from moisture and direct sunlight, this product should be suitable for use for up to three years after manufacture.

Typical Physical and Chemical Characteristics

HD Premium 50% Pre-Diluted Antifreeze/ Coolant	Method	Units	Performance
Appearance	Visual		Yellow, Clear and Bright fluid
pH (as sold)	ASTM D 1287		7.8 – 9.0
Reserve Alkalinity	ASTM D 11121	mL 0.1N HCL	6.0 min
Specific Gravity (15 DegC)	ASTM D 1122	kg/L	1.070 – 1.080
Water Content	ASTM D 1123	% w/w	49.0 – 51.0
Freeze Point (as sold)	ASTM D 1177	Deg C	-37
Chloride	ASTM D 3634	ppm	25 max

These characteristics are typical of current production. Whilst future production will conform to Recochem's specification, variations in these characteristics may occur.

