

Reco-Cool Protectacool Concentrate Antifreeze/ Coolant

Long Life Hybrid Nitrited and Silicated Organic Acid Technology Coolant Concentrate

Reco-Cool Protectacool Concentrate Antifreeze/ Coolant is a low silicate, nitrited, 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. This product is free of phosphate and amine.

Reco-Cool Protectacool Concentrate Antifreeze/ Coolant is designed for use in both automotive and heavy-duty applications.

Applications

Reco-Cool Protectacool Concentrate Antifreeze/ Coolant can be used in both automotive and heavy-duty applications, and 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 nitrited and low-silicated, and yet is free of amines and phosphates. The product is a concentrated antifreeze/coolant and should be diluted 50% with good quality water (demineralised or deionised) before use.

Performance Features and Benefits

- **Long life hybrid organic acid technology**
In Petrol Engine applications, this product is suitable for 5 years or 250,000km, whichever comes first. In Diesel applications, the product is suitable for 500,000km or 6000hr lifetime prior to first SCA addition requirement, whichever comes first.
- **No initial charge SCA requirement**
When used in long haul or heavy-duty applications, there is no need to charge initially the fresh coolant with SCAs.
- **Universal use**
Meets or exceeds standard industry requirements for automotive and heavy-duty diesel applications.
- **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 Protectacool Concentrate Antifreeze/ Coolant.

Specifications and Approvals

Reco-Cool Protectacool Concentrate Antifreeze/ Coolant meets or exceeds the following engine coolant specifications:-

ASTM	D 3306 / D 4985 / D 6210
AS/NZS	2108:2004 Type A
Caterpillar	EC-1 (Sec 2.3 – 4.5 incl.)
Cummins	Bulletin #3666132
Detroit Diesel	Bulletin #7SE298
GM	1825M/1899M
JD	JDM HD24
MAN	324 TUC 1637/77
MTU	(EVP 1 1827/MTL 5048) & NA
MB	DBL 7700
SAE	J1034/J1941
Saab/Scania	6901
TMC	RP 329

Health & Safety

Guidance on Health and Safety is available on the appropriate Material 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 two years after manufacture.



Typical Physical and Chemical Characteristics

Reco-Cool Protectacool Concentrate Antifreeze/ Coolant	Method	Units	Performance
Appearance	Visual		Fluorescent Yellow, Clear and Bright fluid
pH (50% v/v solution)	ASTM D 1287		7.6 – 8.6
Reserve Alkalinity	ASTM D 11121	mL 0.1N HCL	6 min
Specific Gravity (15 DegC)	ASTM D 1122	kg/L	1.120 – 1.140
Freeze Point (50% v/v solution)	ASTM D 1177	Deg C	-37
Chloride	ASTM D 3634	ppm	25 max
Total Glycol		%w/w	94.0 min
Total Apparent Water		%w/w	4.0 max

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

