

PROCOOL COMMERCIAL LONG LIFE 5050 RED PRODUCT DATA SHEET

Issue 1 Issue Date: September 2023

Procool Commercial Long Life 5050 Red is an extended life, ethylene glycol based antifreeze for heavy duty diesel, gasoline and natural gas powered engines. Procool Commercial Long Life 5050 Red contains OAT corrosion inhibitor technology plus nitrites and molybdates. The product is free from amines, borates, nitrates, phosphates and silicates. It provides excellent corrosion protection of HD engines and cooling system components without the use of supplemental coolant additives (SCAs).

Procool Commercial Long Life 5050 Red also provides protection for light duty engines making it suitable for mixed fleet applications. It is pre-diluted and ready-to-use, no further dilution required.

APPLICATIONS

Heavy duty diesel or gasoline engines

Procool Commercial Long Life 5050 Red is formulated to be an extended life coolant in heavy duty applications, found in on-road, off-road, marine, farm, mining and construction equipment.

Procool Commercial Long Life 5050 Red contains organic additive technology corrosion inhibitors along with molybdate and nitrite to provide extra protection to cylinder liners found in heavy duty applications. It will not require an initial charge of supplemental coolant additives (SCAs).

Procool Commercial Long Life 5050 Red also provides protection in light duty engines making it suitable for mixed fleets (light duty as well as heavy duty gasoline and diesel engines).

PERFORMANCE FEATURES AND BENEFITS

All-weather, year round performance

Procool Commercial Long Life 5050 Red provides freeze protection down to -37°C and boilover protection up to $+132^{\circ}\text{C}$ (with the use of a 120 kPa pressure cap).

Extended Life Capability

In petrol engine applications, this product is suitable for 5 years or 250,000km, whichever comes first. In diesel applications, it is suitable for 1,200,000km or 15,000hr or 8 years lifetime prior to first SCA addition requirement, whichever comes first.

Field Compatibility

Procool Commercial Long Life 5050 Red is miscible and compatible with other engine antifreezes of similar type; however to get the best performance from the long life capabilities, it is always recommended to not mix Procool Commercial Long Life 5050 Red with other coolants.

Procool Commercial Long Life 5050 Red is part of the Procool Expert family of heavy duty coolants for the heavy duty market. It is also compatible with Coolant Extenders that are formulated for OAT engine coolant technology.

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SPECIFICATIONS AND APPROVALS

Procool Commercial Long Life 5050 Red is suitable for use where the following standards are stated:

Approvals

- Cummins CES14603

Specifications

OEM/Industry	Specification
ASTM	D3306, D4985, D6210
AS/NZS	2108.1:1997 Type A
CATERPILLAR	EC-1 Version 2.0
CUMMINS BULLETIN	3666132, 14603
KOMATSU	AFNAC
DETROIT DIESEL	7SE298, 93K217
Freightliner	48-22880
General Motors	1825M, 1899M, Heavy Truck
International Truck & Engine	CEMS B-1 JIS K 2234
John Deere	JDM H24
Kenworth	R026-170-97
Landrover	
Mack Truck	014GS17004
MAN	MAN 324
Mercedes-Benz	DBL 7700
MTU	MTL 5048
PACCAR	CS0185
Peterbilt 8	502.002
SAE	J1034
Scania	TB1451
TMC	RP 329
Volvo	

HEALTH AND 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.

Extended 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.

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PROCOOL COMMERCIAL LONG LIFE 5050 RED PHYSICAL AND CHEMICAL PROPERTIES

Test	Performance	Test Method
Appearance, visual colour	Red-Orange	Visual
Flash Point (°C)	116 Min	ASTM D 92
Freeze Point (50% by vol)	-37°C	ASTM D 1177
pH (50% vol)	7.5-9.5	ASTM D 1287
Reserve Alkalinity (ml 0.1N HCL)	1.5 Min	ASTM D 1121
Shelf life (unused)	2 years	
Silicon as silicate (ppm)	<10	ASTM D 6130
Specific Gravity (15.6°C)	1.070-1.080	ASTM D 1122

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

Notice: Because use conditions and applicable laws may differ from one location to another and may change with time, the customer is responsible for determining whether products and the information in this document is appropriate for their use and for ensuring that their workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Procool's warranty is limited to the claims of product meeting stated specifications. It is the responsibility of the end user to determine product suitability as recommended in the Owner's Manual and to follow engine manufacturer's instructions.