

PROCOOL PG 5050 BLUE PRODUCT DATA SHEET

Issue 1 Issue Date: July 2023

Procool PG 5050 Blue is a Propylene Glycol based 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. The product is pre-diluted and is ready to use. It is free of any phosphates and amines.

APPLICATIONS

Procool PG 5050 Blue is a propylene glycol based coolant compatible with many other coolants. It is a pre-diluted coolant requiring no field dilution. It features propylene glycol for lowered toxicity. It is capable of extended life (up to 6 years, 12,000 hours, or 1,000,000 km) without use of SCA's. The need for SCA's should be monitored periodically. Procool PG 5050 Blue is phosphate and amine free. Procool PG 5050 Blue is designed for heavy-duty diesel applications namely on-road truck, off-road mining, farm and marine applications.

PERFORMANCE FEATURES AND BENEFITS

Procool PG 5050 Blue provides the following advantages:

- Protection for diesel engines using a nitrited, conventional coolant.
- Propylene Glycol based formulation reduces toxicity compared to mono-ethylene glycolbased formulations.
- Pre-diluted to an optimum 50% dilution with demineralized water for improved stability, freeze protection, and boil protection.
- Amine and phosphate free.
- Excellent wet sleeve liner cavitation protection.
- Provides wet sleeve liner cavitation protection without an initial charge of SCA or coolant extender.
- Provides appropriate corrosion protection to all coolant system metals including copper, solder, brass, steel, cast iron and aluminium.
- Excellent shelf stability, 3 years.
- Extended Life with proper monitoring.

SPECIFICATIONS AND APPROVALS

Procool PG 5050 Blue can be used in the following applications meeting the performance requirements of each and others requiring a fully formulated coolant. The coolant is not OEM approved.

- ASTM D 3306, 4985, 6211
- Caterpillar
- Detroit Diesel
- Ford HD Trucks
- GM Heavy Truck
- Landrover
- MTU
- New Holland
- Peterbilt
- Saab-Scania
- MAN
- White Star
- Cummins
- Daimler Chrysler
- Freightliner
- Kenworth
- Mack Trucks
- TMC RP 330
- PACCAR
- Perkins
- Mercedes-Benz
- Volvo Heavy Truck

Procool PG 5050 Blue is suitable for transport, industrial and stationary engine applications requiring the use of propylene glycol coolants.

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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

Procool PG 5050 Blue	Method	Units	Performance
Appearance	Visual		Blue, Clear and Bright fluid
pH (as sold)	ASTM D 1287		7.5 - 9.0
Reserve Alkalinity	ASTM D 11121	mL 0.1N HCL	3 min
Specific Gravity (15 DegC)	ASTM D 1122	kg/L	1.048 - 1.058
Water Content	ASTM D 1123	% w/w	49.0 - 51.0
Freeze Point (as sold)	ASTM D 1177	Deg C	-31
Chloride	ASTM D 3634	ppm	25 max
Foam Test Volume Break Time	ASTM D 1881	mL Sec	50 max 5 max
Ash Content	ASTM D 1119	%m	2.5 max
Total Glycols		%m	50 min

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