



Lube Control Pty Ltd



Product Data Sheet

Radicool PG Premix

Ready-to-Use, Heavy Duty Coolant

Description

Castrol Radicool PG Premix is a ready-to-use, fully formulated hybrid technology propylene glycol based engine coolant. It has the advantage of being more robust than both conventional and organic acid technology (OAT) coolants and enables use of a single product in the cooling systems of mixed fleets of heavy duty diesel engines.

Castrol Radicool PG Premix is a low silicate, phosphate and amine free product. It is recommended for use in all heavy-duty diesel applications where it provides excellent high temperature aluminium protection.

Castrol Radicool PG Premix has been premixed to 50% v/v with demineralised water. It does **not** require an initial charge of supplemental coolant additives (SCAs) upon initial fill in heavy duty diesel applications as the product is specially formulated to protect heavy duty diesel wet sleeve liners.

Application

Castrol Radicool PG Premix is recommended for use in the cooling systems of heavy duty diesel engines in mixed fleet operations:

- Mining
- Transport
- Farming
- Marine

Its extended life formulation provides up to 6 years / 12,000 hours / 1,000,000 KM (whichever comes first) off-road maintenance free service, without the need of SCA. Always follow OEM guidelines regarding coolant system maintenance.

Castrol Radicool PG Premix is suitable for use in a wide range of vehicle types including those requiring Caterpillar EC1, Cummins 14603, MTU (EVP 1 1827/MTL5048), Detroit Diesel (Bulletin #7SE 298).

Castrol Radicool PG Premix is a pre-mixed, ready to use coolant. Do not dilute further.

How to Use

Castrol Radicool PG Premix is shown to be chemically compatible with other OAT or conventional type heavy duty coolants. However to maintain the full benefits of its extended service life formula, it is strongly recommended that the diesel cooling system is completely drained and refilled with Castrol Radicool PG Premix.

Any chemical filters (containing SCA) should be replaced with blank filters.

For further advice when changing coolant brands, please contact the Technical Services Manager in your local Castrol office or the Castrol Technical Advice Line on 1300 557 998.

Do not add Castrol Radicool PG Premix, to a cooling system which is already in contaminated or poor condition. If deposits have accumulated in radiators, hoses, reservoirs or on heat transfer surfaces, the cooling system must be flushed out with fresh water to remove contaminants and then drained completely. If this is not sufficient then the affected components should be removed if necessary and physically or chemically cleaned. The cooling system can then be filled with Castrol Radicool PG Premix.



Advantages

- A single product for heavy duty diesel engines in mixed fleet operations including:
 - Caterpillar
 - Cummins
 - Detroit Diesel
 - Mack
 - MAN
 - Mercedes Benz
 - Volvo
- Non toxic - formulated with Propylene Glycol (PG)
- Extended life – no requirement for SCA or coolant extender for up to 6 years, 12,000 hours or 1,000,000 km whichever comes first. Always follow OEM guidelines regarding coolant system maintenance. Never add SCA or coolant extender unless coolant testing shows it is required.
- No initial SCA requirement at initial fill
- Compatible with OAT and conventional type engine coolants
- Low silicate
- Phosphate and amine free
- Hard water compatible
- Provides exceptional summer cooling and excellent freezing protection during winter

Typical Characteristics

Name	Method	Units	Castrol Radicool PG Premix
Appearance	Visual	-	clear blue fluid
Boiling Point of Engine Coolants	ASTM D1120	°C	104
Density @ 20C	ASTM D1122	g/ml	1.053
Reserve Alkalinity	ASTM D1121	ml 0.1N HCl	3.6
pH, Engine Coolants (50%)	ASTM D1287	pH	7.9
Water	ASTM D1123	% w t	48
Foam, break time	ASTM D1881	seconds	4
Freezing Point, Coolant 50% vol in w ater	ASTM D1177	°C	-31

The above data is typical and does not constitute a specification.

Product Performance Claims

ASTM D3306 (IV)
ASTM D4985
ASTM D6210
TMC - RP 330

Radicool PG Premix
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