



Product Data

Castrol Radicool SF

Engine Coolant and Antifreeze

Description

Castrol Radicool SF is a long-life coolant based on monoethyleneglycol with advanced organic acid inhibitor technology. In contrast to traditional antifreeze coolants, Castrol Radicool SF does not contain amines, nitrites, phosphates, silicates or other inorganic inhibitors.

Castrol Radicool SF works over a wide operating temperature range for effective engine cooling in all climates.

Castrol Radicool SF should be used at concentrations of between 33% and 50% dilution with purified water to give optimum corrosion protection and freezing protection between -18°C and -36°C.

Application

Castrol Radicool SF has been designed for use in engines employing cast iron, aluminium, copper or combinations of these metals used in modern engine designs. Castrol Radicool SF provides excellent protection to light metal engines. Compatible with standard rubber hoses, gaskets and seals used within the cooling system.

It is suitable for a wide range of vehicles including cars, trucks and buses using both petrol and diesel engines. It is therefore particularly suitable for use in mixed fleets.

In the majority of cases, coolants are not compatible and should not be mixed with other coolants unless directed by the equipment manufacturer. If using Castrol Radicool SF for the first time, ensure that the cooling system has been adequately flushed with clean water.

Advantages

The special inhibitor package used in Castrol Radicool SF:

- Enables longer drain intervals up to 5 years, which means reduced cost and less possibility of harm to the environment.
- Provides excellent protection against cavitation corrosion and effective water pump lubrication, reducing wear and noise.
- Prevents the build-up of calcium deposits (scale) from use of hard water, thereby reducing possibility of radiator blocking and restricted flow of coolant.
- Improves the fluids heat transfer properties ensuring engines run at optimum temperatures.

Typical Characteristics

Name	Method	Units	Castrol Radicool SF
Boiling Point of Engine Coolants	ASTM D1120	°C	175
Density @ 20C	Supplier	g/ml	1.113
Water	ASTM D1123	% w t	2.6
pH, Aqueous Solution (33%)	ASTM D1287	pH	8.0
Reserve Alkalinity	ASTM D1121	ml 0.1N HCl	6.2
Appearance	Visual	-	Pink clear & bright liquid
Freezing Point, Coolant 50% vol in w ater	ASTM D1177	°C	-37

Product Performance Claims

ASTM D3306 (I),
ASTM D4985,
ASTM D6210
BS - BS 6580:2010
JASO JIS K2234
GB 29743.1-2022 LEC I
Deutz DQC CB-14
Meets Ford WSS-M97B44-D
MAN 324 Typ SNF
DTFR 29C110
VW TL-774F (G12+)
DAF 74002

Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

Castrol Radicool SF
29 Sep 2025
Castrol, the Castrol logo and related marks are trademarks of Castrol Limited, used under licence.

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by either BP plc or its subsidiaries for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our local representative if you require any further information.

Castrol (UK) Limited, PO BOX 354, Chertsey Road, Sunbury On Thames, Middlesex, TW16 9AW

www.castrol.com