



## Radicool SF

Antifreeze Coolant

### 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 provides excellent corrosion protection particularly to those engines employing light metals. 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

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

### Application

The special inhibitor package used in Castrol Radicool SF enables longer drain intervals with excellent protection against corrosion, cooling system blockage, overheating and freezing.

It is especially suitable for use in engines employing cast iron, aluminium, copper or combinations of these metals used in modern engine designs. It is also compatible with all standard rubber hoses, gaskets and seals used within the cooling system.

Castrol Radicool SF possesses a longer operational life by allowing extended drain intervals of 3 years plus. Longer drain intervals mean reduced cost and less possibility of harm to the environment.

Castrol Radicool SF provides excellent protection against cavitation corrosion and effective water pump lubrication, reducing wear and noise.

The additive technology used in Castrol Radicool SF prevents the build up of calcium deposits (scale) from use of hard water, thereby reducing possibility of radiator blocking and restricted flow of coolant. This technology also improves the fluids heat transfer properties ensuring engines run at optimum temperatures.

Castrol Radicool SF is approved by a number of OEM's including Mercedes Benz, Volkswagen, MAN and Ford. It is also recommended against the following vehicle manufacturer's specifications; General Motors GM 6277M, Deutz, Cummins IS series and N14 engines, Jenbacher, Komatsu, Renault Type D, Jaguar CMR 8229 and MTU MTL 5048 Series 2000C&I.

Castrol Radicool SF contains a bittering agent to deter from accidental ingestion

### Conditions of Use

Castrol Radicool SF should be diluted between 33% and 50% concentration, with deionised/distilled water. For best all round performance, it is recommended that a 50% mixture in water is used. Concentrations higher than 70% volume are not recommended.

To maintain its performance, Castrol Radicool SF should not be mixed with other coolants. It is recommended that cooling systems should be drained and flushed before re-filling with diluted Castrol Radicool SF.

This product has a 2 year shelf life when stored in its original container below 60°C, and undercover protection from hot sun and freezing conditions. Where outside storage is unavoidable, drums should be stored in a horizontal position to avoid the possibility of water ingress. As with most antifreezes, the use of galvanised containers and components should be avoided.

## Typical Characteristics

Name	Method	Units	Castrol Radicool SF
Boiling Point of Engine Coolants	ASTM D1120	°C	175
Density @ 20C	IP 160	g/ml	1.113
Water	ASTM D1123	% wt	2.6
pH, Aqueous Solution (33%)	ASTM D1287	pH	8.0
Reserve Alkalinity	ASTM D1121	ml 0.1N HCl	6.2
Appearance	Visual	-	Pink mobile liquid, clear & bright.
Flash Point, COC	ISO 2592	°C	>120
Freezing point at 50% dilution	ASTM D3321	°C	-37

## Product Performance Claims

ASTM D3306 (I),  
ASTM D4985,  
ASTM D6210  
BS - BS 6580:2010  
JASO JIS K2234  
Deutz DQC CB-14  
Ford WSS-M97B44-D  
MAN 324 Typ SNF  
MB-Approval 325.3  
VW TL-774F (G12+)

## 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.

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