

**Product Data Sheet****Radicoool P-OAT**

Engine Coolant and Antifreeze

Description

Castrol Radicoool P-OAT is a nitrite, amine, borate and silicate free antifreeze coolant for vehicles requiring Phosphated Organic Additive Technology (P-OAT). Aqueous solutions of Castrol Radicoool P-OAT act as both antifreeze and coolant and offer excellent corrosion protection to all metal parts found in the cooling systems of internal combustion engines.

Castrol Radicoool P-OAT should be used at concentrations of between 33% and 50% dilution with distilled or de-ionised water to give optimum corrosion protection and freezing protection between -16°C and -37°C.

Application

Castrol Radicoool P-OAT has been developed to provide excellent protection for the metals used in engine radiator systems, cylinder block heads, water pumps and heat exchangers.

Castrol Radicoool P-OAT is suitable for use with a wide range of engines including those of aluminium, cast iron or combinations of those two metals. Also suitable for cooling systems made of aluminium, copper or their alloys.

Castrol Radicoool P-OAT is suitable for Japanese and Korean vehicles requiring P-OAT coolants and is also suitable for use where a coolant meeting Ford WSS-M97B57-A1 is required.

Castrol Radicoool P-OAT also meets the industry standards of ASTM D3306, ASTM D6210 and JIS K2234.

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 Radicoool P-OAT for the first time, ensure that the cooling system has been adequately flushed with clean water.

Advantages

Castrol Radicoool P-OAT has the following advantages:

- Excellent corrosion protection to protect metals used in cooling systems.
- Long life usage – resulting from stable, non-depleting organic inhibitors.
- Superior cavitation protection prevents pitting wear of the cooling system.
- Improved heat transfer through removal of silicates in the formulation.
- Suitable for a wide range of applications, including automotive and heavy-duty.



Typical Characteristics

Name	Method	Units	Radicool P-OAT
Appearance	Visual	-	slightly hazy liquid
Colour	Visual	-	dark blue green
Density @ 20C	ASTM D5931	g/ml	1.19
Alkalinity, Reserve of Engine Coolants	ASTM D1121	mg KOH/g	8.9
Water Content Karl Fischer (volumetric)	ASTM D1123	ppm / %	4.0 max
Boiling Point of Engine Coolants	ASTM D1120	°C	160 min.
pH @20°C, 40% vol.	ASTM D1287	N/A	8.0
Freezing point, engine coolants, 40% vol.	ASTM D1177	°C	-23.0

Product Performance Claims

ASTM D3306(I),
ASTM D6210,
JASO JIS K2234
Suitable for use in vehicles from Japanese and Korean manufacturers.
Suitable for use where a coolant meeting Ford WSS-M97B57-A1 is required.

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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