

Shell Antifreeze/Coolant Concentrate

Concentrate for use in Older or High-Mileage vehicles



Shell Antifreeze/Coolant Concentrate is an economical coolant supplied in concentrate form which provides freeze and corrosion protection. It is a NAP (nitrites, amines, phosphates) free formulation based on inorganic additive technology. It provides a suitable coolant/antifreeze for most vehicles manufactured prior to 1996 as well as many vehicles manufactured after 1996 when an extended life coolant is not needed.

Applications

- *Water/glycol cooling systems in internal combustion engines.*

Performance Features and Benefits

Corrosion protection –

Improved engine reliability and durability

Frost protection –

Winter protection against engine damage

Boiling protection –

Control of overheating, coolant loss and breakdown at high engine temperatures

Miscibility –

Ease of mixing with water

Seal compatibility –

Suitable for general use in all vehicle engines

Hard water stability –

Avoids deposits in the engine when used with hard water

Service Interval

Use up to 3 years/50,000 kms

Specifications and Applications

BS 6580
ASTM D 3306

Shell Antifreeze/Coolant Concentrate is suitable for use in vehicles requiring a conventional inorganic coolant. Service intervals are generally up to 2-3 years, 50,000 kms.

Dilute 1 part coolant with 1 part water for optimum results. Dilution must be maintained between 1 part coolant to 2 parts water (33% by volume) up to 3 parts coolant with 2 parts water (40% by volume). Do not over-dilute or under-dilute or the performance of the corrosion inhibitor will be compromised and the coolant may freeze unexpectedly.

Advice

Advice on applications not covered in this leaflet may be obtained from your Shell Representative.

Health and Safety

Guidance on Health and Safety are available on the appropriate Material Safety Data Sheet that can be obtained from your Shell representative.

Storage Requirements

Store at ambient temperatures and periods of exposure to temperatures above 35°C Should be minimized. As with any High Mileage Coolant/Antifreeze coolant the use of galvanized steel is not recommended for pipes or any other parts of the storage/mixing installation.

Typical Physical Characteristics

Shell Antifreeze Concentrate			
Colour			
Boiling point	°C	ASTM D 1120	170
Density at 15 °C	kg/m ³	ASTM D 4052	1120
Flammability point	°C	ASTM D 92	>122
Reserve alkalinity		ASTM D 1121	
Freezing Point °C	50% in water	ASTM D 1177	-38
	33% in water	ASTM D 1177	-18

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