

ALPINE® C12

Super-Longlife coolant red

Properties

ALPINE C12 is a radiator protection based on ethylene glycol, free of potentially harmful substances such as nitrites, amines and phosphates. Due to an optimal combination of very stable inhibitors based on silicate-free carboxylic acid technology, **ALPINE C12** offers excellent corrosion and cavitation protection for the longest possible coolant service life. Further additives prevent the coolant from foaming and prevent deposits. **ALPINE C12** offers year-round frost and corrosion protection that is maintenance-free over the entire service life of the engine. The coolant has no negative influence on coolant hoses or cylinder head gaskets.

Application notes

ALPINE C12 mixed with the corresponding quantity water (distilled water) is used as a coolant and heat transfer fluid in modern combustion engines, whether engines made of cast iron, aluminium or a combination of both metals and in cooling systems made of aluminium or copper alloys. **ALPINE C12** is especially recommended for light metal engines where special aluminium protection is required at higher temperatures.

An application concentration of 50 vol.% is recommended all year round.

ALPINE C12 can be mixed with most ethylene glycol-based coolants.

Caution: Observe manufacturer's instructions.

Service description

Approvals:

- MB-Approval 325.3

Recommendation*:

- VW TL 774 D
- MAN 324 SNF
- Ford WSS-M97B44-D
- GM 6277M

Specifications:

- AS 2108-2004
- ASTM D 3306, ASTM D 4985
- AFNOR NF R15-601
- BS 6580:2010
- SAE J 1034

ALPINE C12 parts	Water parts	Anti-frost up to:
1	2	-18°C
1	1,5	-24°C
1	1	-36°C

* meets the requirements of the OEM manufacturer.
The stated values may vary within the usual commercial range.

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TYPICAL PARAMETERS	METHODS	UNITS	ALPINE C12
Density at 20°C	ASTM D 4052	g/cm ³	1.11
Reserve alkalinity (pH 5.5)	ASTM D 1121	ml 0,1 n HCl	6.2
Boiling point	ASTM D 1120	°C	>163
pH value	ASTM D 1287	-	8.6
Flash point	DIN EN ISO 2592	°C	>120
Antifreeze at 50 vol. %	ASTM D 1177	°C	- 36
Colour	-	-	red

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