

ALPINE® C12+

Super-longlife coolant purple

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 (distilled water) of water is used as a coolant and heat transfer fluid in combustion engines, regardless of whether engines are 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

Approval:

- VW TL 774 F

Recommendation*:

- MAN 324 SNF
- MB 325.3
- VW TL 774 D
- Ford WSS-M97B44-D
- Opel GM 6277M

ALPINE C12+ parts	Water parts	Anti-frost up to
1	2	-18°C
1	1.5	-24°C
1	1	-36°C

TYPICAL PARAMETERS	METHODS	UNITS	ALPINE C12+
Density at 20°C	ASTM D 5931	g/cm³	1.113
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
Flashpoint	DIN EN ISO 2592	°C	>120
Antifreeze at 50 vol.%	ASTM D 1177	°C	- 36
Colour	-	-	purple

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

March 2018