

# ALPINE® C12+

## Super-Longlife coolant violet

### 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

#### Recommendation\*:

- VW TL 774 D, VW TL 774 F
- MAN 324 SNF
- MB 325.3
- 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.

# ALPINE® C12+

TYPICAL PARAMETERS	METHODS	UNITS	ALPINE C12+
Density at 20°C	ASTM D 4052	g/cm <sup>3</sup>	1.11
Reserve alkalinity (pH 5.5)	ASTM D 1121	ml 0,1 n HCl	6.2
Boiling point	ASTM D 1120	°C	>170
pH value	ASTM D 1287	-	7.5 - 9
Flash point	DIN EN ISO 2592	°C	>111
Antifreeze at 50 vol.%	ASTM D 1177	°C	- 36
Colour	-	-	violet

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