ALPINE® C 048

Coolant

Properties

ALPINE C 048 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 inhibitors based on carboxylic acid technology as well as silicates and borates (hybrid coolant), **ALPINE C 048** guarantees powerful and long-lasting corrosion protection for extended coolant life. Further additives prevent the coolant from foaming, provide the right cavitation protection and prevent deposits. **ALPINE C 048** offers year-round, maintenance-free frost and overheating protection due to a higher boiling point. The coolant has no negative influence on coolant hoses or cylinder head gaskets.

Application notes

ALPINE C 048 mixed with the corresponding quantity (distilled water) of water is used as a coolant and heat transfer fluid in combustion engines, without restriction whether engines are made of cast iron, aluminium or a combination of both metals and in cooling systems made of aluminium or copper alloys.
An application concentration of 50 vol.% is recommended all year round.
Mixing **ALPINE C 048** with other radiator protection agents or products of other manufacturers is not recommended.
Caution: Observe manufacturer's instructions.

Service description

Recommendation*:

- VW TL 774 C
- MB 325.0
- GM B 040 0240, GM Europe L1301
- Chrysler MS7170
- BMW GS 94000
- MAN 324 Typ NF
- MTU MTL 5048
- Deutz DQC CA-14

Specifications:

- ASTM D 3306 / 4985 / 6210
- SAE J 1034 • BS6580 (2010) • AFNOR NF R15-601 • JIS K2234

ALPINE C 048 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 C 048**
Density at 20°C	DIN 51 757	g/cm³	1.123
Reserve alkalinity (pH 5.5)	ASTM D 1121	ml 0,1 n HCl	15
Boiling point	ASTM D 1120	°C	170
pH value	ASTM D 1287	-	8.0
Flash point	DIN EN ISO 2592	°C	>120
Antifreeze at 50 vol.%	ASTM D 1177	°C	- 36
Colour	-	-	blue-green

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

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