

# ALPINE® C48

## Premium coolant

### Properties

**ALPINE C48** is a coolant 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 C48** 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 C48** 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 C48** mixed with the corresponding quantity (distilled) 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 C48** with other coolants or products of other manufacturers is not recommended.

**Caution:** Observe manufacturer's instructions and use concentration of min. 33 vol.%.

### Service description

#### Approval:

- MB 325.0
- VW TL 774 C
- MAN 324 Typ NF
- Deutz DQC CA-14
- MTU MTL 5048

#### Recommendation\*:

- 2G
- BMW LC-87
- Deutz-Fahr (<03/2017)
- Eicher Engines (TMTL Part No. 93183798)
- Fendt
- Huerlimann (<03/2017)
- Jenbacher (TA-Nr. 1000-0201)
- Lamborghini-Tractors (<03/2017)
- Liebherr (Minimum LH-00-COL3A)
- MAN Energy Solutions (List 3.3.7)
- MB 326.0
- Mitsubishi Carisma (1996-2004)
- Mitsubishi Colt (2004-2007)
- MWM (TR 2091)
- Opel GM B 040 0240
- Porsche (<1995)
- Saab (690 1599)

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

- Same (<03/2017)
- Tesla (>2013)
- Volvo Trucks (<2005)

**Also protects:**

- Alfa Romeo (1976-2005), ATLAS, Bentley (1980-2005), Ferrari (1979-2009), Fiat (1982-2005), Ford (<1997), Jaguar (1986-1999), Lada, Lancia (1976-2005), Lotus (1980-1999), Morgan, Toyota (>2015)

**Specifications:**

- AS 2108-2004
- ASTM D 3306, 4985
- BS6580:2010
- CUNA NC 956-16
- AFNOR NFR 15-601
- JIS K 2234:2206
- SAE J1034
- ÖNORM V 5123
- SANS 1251:2005
- China GB 29743-2013

TYPICAL PARAMETERS	METHODS	UNITS	ALPINE C48
Density at 20°C	DIN 51 757	g/cm <sup>3</sup>	1.12
Reserve alkalinity (pH 5.5)	ASTM D 1121	ml 0,1 n HCl	13-15
Boiling point	ASTM D 1120	°C	>=165
pH value	ASTM D 1287	-	7.2
Flash point	DIN EN ISO 2719	°C	>126.5
Antifreeze at 50 vol. %	ASTM D 1177	°C	- 36
Colour	-	-	blue-green

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