

Carraro Antifreeze

Innovative extended life antifreeze/coolant, highly biodegradable, for radiators and cooling circuits.

Blue coloured, based on ethylene glycol, free from nitrites, amines and phosphates, with hybrid anti-corrosion additives.

READY TO USE, pre-mixed with demineralized water.

FREEZING PROTECTION -36°C.

CARRARO ANTIFREEZE is an innovative anti-freeze/coolant, highly biodegradable, obtained with a hybrid technology based on carboxylic acids mixed with silicates corrosion inhibitors. It is free from nitrites, amines and phosphates.

Mono Ethylene Glycol based coolant, CARRARO ANTIFREEZE guarantees excellent protection against freezing and boiling.

Through its special inhibitors the product protects all metallic engine components against corrosion for a period superior to that of conventional coolants.

CARRARO ANTIFREEZE is a ready to use product for cooling systems. Thanks to its inhibitors, it provides the following **performance**:

- **READY TO USE, pre-mixed with deionized/demineralized water;**
- **FREEZE PROTECTION** up to **-36°C**;
- better heat transfer properties;
- better compatibility with new generation aluminium heat exchangers;
- reduced maintenance especially during the warranty period (thermostat, radiator, water pump, etc.);
- superior anti-corrosion protection for long periods;
- application in mixed fleets (cars, vans, heavy duty systems, excavators, etc.);
- more environmentally friendly thanks to the easy biodegradability of the product;
- protection properties maintained over long periods of time thanks to its high Alkalinity Reserve that neutralizes acids oxidation derivatives;
- difficult incidental ingestion due to the bitter taste of the product.

Miscibility with coolants

In order to obtain the best protection and longer drain intervals, we recommend to use only CARRARO ANTIFREEZE.

Mixing with other coolants should be done only under particular circumstances.

Application fields

CARRARO ANTIFREEZE is particularly recommended for cooling and heat exchange of new generation engines for which an efficient aluminium protection at high temperatures is essential. It is thus indicated for cars, vans, heavy duty vehicles, earth moving machines, buses, etc. and for aluminium and/or cast iron and/or copper alloy cooling systems.

The product it is also recommended for cooling systems of previous generation engines.

CARRARO ANTIFREEZE guarantees longer working life.

For maximum drain intervals (kilometers or operating times, whichever comes first) please follow OEM's Recommendations.

Performance levels (Standard and Constructors)

In the recommended dilutions, the product allows to satisfy the following performance levels:

ASTM D3306/D4656, ASTM D4985, BS 6580, AFNOR NFR 15-601, FVV Heft R443, JASO M325, JIS K2234, KSM 2142, SAE J1034.

BMW GS 9400, Cummins 85T8-2, Chrysler MS-7170, Fiat 9.55523, Ford ESD-M97B49-A, GM (Opel) QL130100, Iveco 18-1830, JI Case JIC-501, Land-Rover, Lada TTM VAZ 1.97.717-97, MAN 324 Type NF, MB 325.0 / 325.2, MTU MTL 5048, SAAB 6901599, Volvo 128 6083/002, VW(Audi/Seat/Skoda) / Porsche TL-774-C.

Chemical-Physical Characteristics

Carraro Antifreeze	Method analysis	Unit measure	Value
Colour	-	-	blue
Density at 15°C	ASTM D1122	kg/l	1,072
Reserve alkalinity (pH 5,5)	ASTM D1121	ml(HCl)	8,0
pH (v/v – 50gl./50ac.)	ASTM D1287	-	8,4
Freezing Protection	-	°C	-36

The data just above refer to average values and must not be understood as guaranteed characteristics.

This Technical Data Sheet has been carefully checked to guarantee complete and precise information. However, we do not take any responsibility in case of damages caused by any mistakes or omissions. Due to continual product research and development, the information contained herein is subject to change without notification.