



AGIP ANTIFREEZE PLUS

AGIP ANTIFREEZE PLUS is a special amines, phosphates, nitrite-free liquid for mixing with demineralized water in the cooling circuits of vehicles.

CHARACTERISTICS (TYPICAL FIGURES)

AGIP ANTIFREEZE PLUS

Color	-	turquoise
Boiling point	°C	170
Freezing point	-	see table
pH dil. 50% water	-	8.3
Mass density at 15 °C	kg/l	1,130

PROPERTIES AND PERFORMANCE

- AGIP ANTIFREEZE PLUS is a liquid whose composition and characteristics remain unaltered during storage and when in use. It can therefore be advantageously left in the circuit throughout the year - winter and summer alike.
- It has no acidic properties and so does not attack metals, even those very susceptible to acid action, such as aluminium, copper and soldering alloys; its outstanding antirust properties help protect ferrous and aluminium metals and their alloys in contact with the cooling liquid.
- Its particular formulation minimizes fouling even if hard water has to be used, so there is no loss of heat-exchange efficiency.
- Its marked antifoam properties prevent conditions of air trapping that could negatively affect the heat-removal capacity of the coolant. This action is assured even when circulation is very rapid.
- It will not cause swelling of rubber parts of the cooling circuit or other rubber components in contact with the fluid.

APPLICATIONS

The thermal behaviour of the coolant is closely related to the dilution rate adopted. The following table shows the freezing/boiling points of the mixture at different dilution rates.

% Volume	Freezing Point	Boiling Point
25	-12 °C	105 °C
33	-18 °C	106 °C
50	-38 °C	108 °C
60	-50 °C	113 °C



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Based on field experience, it has been seen that best performances are generally obtained by keeping dilution rate within range 40-60 % in demineralized water.

Nevertheless, the directions for suitable type of coolant and dilution modalities are direct responsibility of the vehicle manufacturer's and the user is strongly recommended to comply with them.

Mixing AGIP ANTIFREEZE PLUS with different coolants could negatively affect overall performances of final mixture.

SPECIFICATIONS

AGIP ANTIFREEZE PLUS is officially approved by or meets the specification requirements of the following organization and car maker:

- VW TL 774 C (G 11)
- BMW
- MAN 324 Typ NF
- MB 325.0
- OPEL
- VOLVO
- ASTM D 3306
- ASTM D 1384
- ASTM D 2570
- ASTM D 2809
- CUNA NC 956-16/97
- CUNA NC 956-10
- Maserati
- NATO S-759