



# AGIP ANTIFREEZE EXTRA

AGIP ANTIFREEZE EXTRA is a nitrite, amine, phosphate free liquid for mixing with demineralized water suitable for use in almost all types of motor-vehicle cooling circuits.

## CHARACTERISTICS (TYPICAL FIGURES)

### AGIP ANTIFREEZE EXTRA

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

## PROPERTIES AND PERFORMANCE

- AGIP ANTIFREEZE EXTRA lowers the freezing point of the coolant. The extent to which the FP is lowered depends on the concentration used.
- It can be advantageously left in the system 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 high level of alkalinity prevents any tendency towards corrosion, even after a long time in the cooling circuit.
- Its special antirust properties help to protect ferrous metals in contact with the cooling fluid.
- Its particular formulation minimizes scale formation even when hard water is used, so there is no loss of heat-exchange properties.
- 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 is compatible with rubber and will not cause swelling.

## 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.



## AGIP ANTIFREEZE EXTRA

% Volume	Freezing Point	Boiling Point
25	-12 °C	103 °C
33	-18 °C	105 °C
50	-38 °C	110 °C
60	-45 °C	112 °C

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.

### SPECIFICATIONS

AGIP ANTIFREEZE EXTRA meets the requirements of the following specifications:

- ASTM D 1384
- CUNA NC 956-16 ed. '97
- FF.SS. cat. 002/132