



eni Antifreeze Eco Plus

eni Antifreeze Eco Plus is a special biodegradable fluid free of nitrite, amine, phosphate and is suitable for use in almost all types of motor-vehicle cooling circuits.

CHARACTERISTICS (Typical figures)

Boiling point	°C	160
Boiling Point (water diluted)	(see table below)	
Freezing point (water diluted)	(see table below)	
Colour	-	turquoise
Mass density at 15°C	kg/l	1,055

PROPERTIES AND PERFORMANCE

- eni Antifreeze Eco Plus is a propylene glycol based product with "long-life" performance that can be left in the system throughout the year
- It has no acidic properties and so does not attack metals, even those very susceptible to acids, such as aluminium, copper and soldering alloys.
- Its high level of alkalinity prevents any tendency towards corrosion, with long term durability.
- Its special antirust properties help protect ferrous metals in contact with the cooling liquid.
- Its particular formulation minimizes scale formation and droppings of heat-exchange efficiency, even if water with a not negligible rate of hardness is used.
- Its marked antifoam properties prevent conditions of air trapping that could negatively affect the heat-removal capacity of the coolant. This action is ensured even when circulation is very rapid.
- eni Antifreeze Eco Plus is compatible with rubber and will not cause seals 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.



eni Antifreeze Eco Plus

% Volume	Freezing Point	Boiling Point
20	-8°C	101°C
30	-14°C	103°C
40	-22°C	103°C
50	-33°C	104°C
60	-48°C	106°C
100	n.a.	160°C

Based on field experience, it is recommended to keep dilution rate within range 40-60% in demineralized water in order to get best performance from the product; nevertheless, the prescriptions for suitable type of coolant and dilution modalities are straight responsibility of the vehicle's manufacturer and the user must always comply with them.

Mixing eni Antifreeze Eco Plus with different coolants could negatively affect overall performances of final mixture.

SPECIFICATIONS

eni Antifreeze Eco Plus meets the requirements of the following specification and tests:

- ASTM D 3306, general performances
- BMW 291-A sludges and corrosion test
- NORMA CUNA 956-18, rubber compatibility