

## ANTIFREEZ

Antifreez additive

### FEATURES

**ANTIFREEZ** is a product based on divalent alcohols which, when mixed with water, lowers its freezing point.

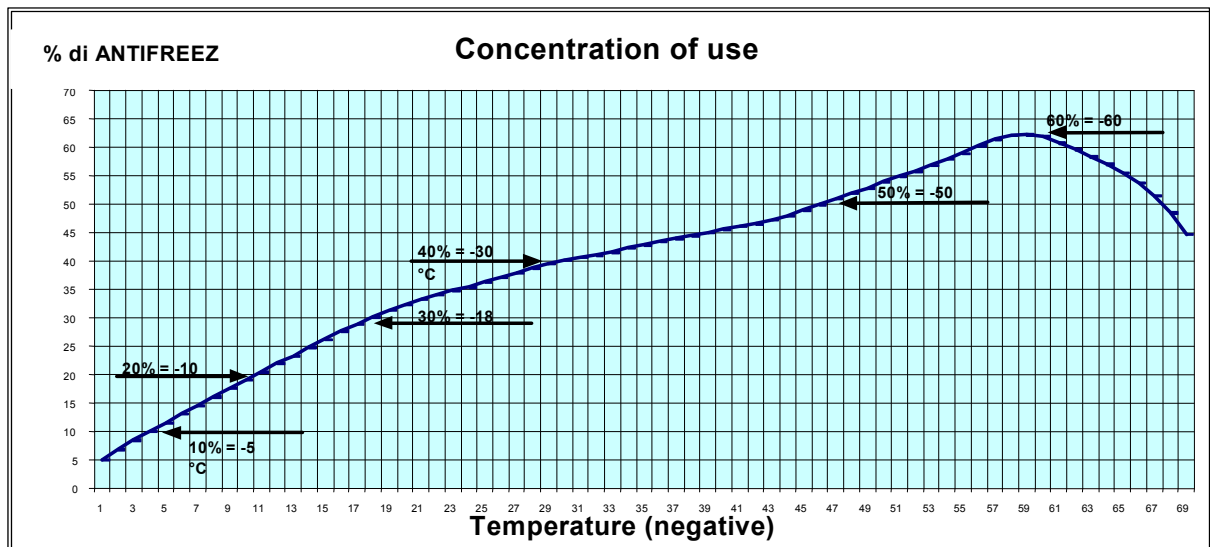
The product is able to prevent the freezing of the solution even up to temperatures of  $-60^{\circ}\text{C}$ .

It also performs other very important functions for the good conservation of a circuit:

### APPLICATIONS

**ANTIFREEZ** can be used in all cases where it is necessary to lower the freezing point of an aqueous solution:

- Cooling systems, cooling towers, radiators.
- Heating systems (for winter stops)
- Solar panels
- Heat pumps



✓ thanks to the presence of corrosion inhibiting additives, it reduces the aggressiveness of water against copper, steel and light alloys;

✓ greatly reduces the precipitation of limestone, improving the heat exchange.

Physical state : liquid  
 Color : light blue  
 pH (sol.1%) : 9 +/- 1  
 Viscosity : 19,2 cp (to  $20^{\circ}\text{C}$ )  
 Flammability :  $120^{\circ}\text{C}$

### HOW TO USE

**ANTIFREEZ** is completely and immediately miscible with water, so that the mixture can be prepared without particular problems with the desired percentage of product.

In closed circuits it isn't necessary to make any reintegration and the mixture can be used for 8-10 months before replacement. The percentage of product to be used depends on the temperature that can be reached and is detectable in the attached table.



## **ANTIFREEZ**

Antifreez additive

**ANTIFREEZ** is an antifreeze product that is characterized both by its efficient anti-freezing action and by its protective properties towards all metals that normally can be present in a cooling circuit.

In **ANTIFREEZ** are absent amines, nitrites and phosphates.

The following are the main characteristics of the **ANTIFREEZE** product:

### **Glass corrosion test (weight loss mg / specimen)**

<b>Metals</b>	<b>ASTM D 3306 limits</b>	<b>ANTIFREEZ specifications</b>
<b>Cooper</b>	<b>10 max.</b>	<b>0,8</b>
<b>Solder</b>	<b>30 max.</b>	<b>1,6</b>
<b>Brass</b>	<b>10 max.</b>	<b>0,7</b>
<b>Steel</b>	<b>10 max.</b>	<b>0,1</b>
<b>Cast iron</b>	<b>10 max.</b>	<b>0,1</b>
<b>Aluminium</b>	<b>30 max.</b>	<b>0,4</b>

**Alkalinity reserve (ASTM D 1121 method): 15 min. (ASTM limits D3306: 10 min).**

**ANTIFREEZ exceeds the specifications required by the following standards and specifications:**

ASTM D 3306 – SAE J 814  
 ASTM D 4340 – SAE J 1034  
 CUNA NC 956-16  
 B.S. 6580  
 FIAT 9.55523/41  
 G.M. U.S. 1899-M  
 G.M. E. L6-368  
 FORD – WSN -97 B 18 – D  
 MERCEDES-BENZ AG DBL  
 7700-00  
 BMW 600.69.0