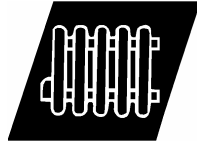


GLACELF MPG SUPRA



Antifreeze

GLACELF MPG SUPRA is an antifreeze based on monopropylene glycol and organic corrosion inhibitors for heating and cooling circuits.

Its exclusive formula contains no inorganic substances (phosphates, amines, nitrites or silicates), extends the life of the system and enhances protection of the different components.

APPLICATIONS

Heat transfer

Engine cooling

- Heat transfer in installations (cooling, heating or refrigeration circuits):
 - the pharmaceutical and agro-food industries,
 - combined heat and power or cooling requiring freezing protection from -5 to -50°C according to dilution (see table below).For use in an engine cooling circuit, dilute between 35 and 50%. It is necessary to use a soft water for dilution even though laboratory tests have given acceptable results with a water at 20°TH.
- Before filling a circuit that has previously contained a different product, it should be flushed to avoid any adverse effects on the properties of the product. It is essential that the antifreeze be mechanically mixed with water to ensure a perfect mix.

SPECIFICATIONS

- **GLACELF MPG SUPRA** complies with the following standards:
 - AFNOR NFR 15-601
 - ASTM D 3306
 - WÄRTSILÄ

ADVANTAGES

Enhanced protection against corrosion and cavitation.

No deposits formed in the cooling circuit.

Lower cost

- Compatible when mixed with other antifreezes based on monopropylene glycol or monoethylene glycol.
- Wide service temperature range;
- Heat transfer performance involving low energy loss;
- Long lasting corrosion protection through the use of patented organic inhibitors ("SUPRA" quality and performance);
- Improved stability with dilution water.
- The "long life" character of the fluid means less frequent replacement and hence lower cost.



STANDARD CHARACTERISTICS	METHODS	UNITS	GLACELF MPG SUPRA	
Colour			colourless	
Density at 15°C	ISO 3676	kg/m ³	1045	
Alkalinity reserve (pH 5.5)	ASTM D 1121		5.7	
Boiling point	ASTM D 1120	°C	165	
Dilution to:			50%	35%
pH	ASTMD 1287		8.7	8.3
Limiting temperature of use		°C	-32°C	-13°C

The values given in this table are typical characteristics given for illustrative purposes.

UTILISATION

Facilities that contain deposits arising from construction (new installations) or corrosion (facilities already in service) must be thoroughly flushed.

PROCEDURE

1. Circulate the used fluid for at least 1 hour to put any deposits in suspension.
2. Empty the water circuits completely (flush out any low points or retention zones).
3. Check the heating tubes and the expansion tank and clean out if any deposits are found.
4. Rinse with pure water (say, twice), circulating water throughout the circuit.
Empty and check that the filters are not blocked by deposits.
5. Drain the circuit completely.
6. Refill with **GLACELF MPG SUPRA** to the concentration defined for the particular facility.

