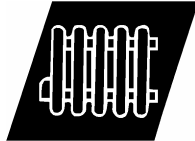


# COOLELF SUPRA



Coolant / heat transfer fluid

COOLELF SUPRA is a “long-life” ready to use coolant formulated from an extremely pure monoethylene glycol base and containing corrosion inhibitors developed from the very latest techniques in materials protection in corrosive environments. Its unique environment friendly formula, is completely free from phosphates, amines, nitrites and boron.

## APPLICATIONS

Engine cooling  
Heat transfer

- Industrial Diesel and gas engines cooling needing an antifreeze protection temperature above - 25 °C.  
For cogeneration installations accepting a freezing point of - 7 °C, use **COOLELF CHP SUPRA**.  
Before filling a circuit that previously contained another fluid, it is necessary to flush it to avoid the product performances degradation.

## SPECIFICATIONS

### International specifications

- **COOLELF SUPRA** complies with the following specifications :
  - ASTM D 3306
  - ASTM D 4656
  - ASTM D 4985
  - BS 6580
  - AFNOR NF R 15-601.

### Engines manufacturers

- **COOLELF SUPRA** meets the requirements of the following Diesel and Gas engine manufacturers :
  - COOPER BESSEMER, CUMMINS,
  - DEUTZ POWER SYSTEMS,
  - DRESSER-CLARK, DIESEL RICERCHE, DETROIT DIESEL 2000 & 4000 series,
  - FICANTIERI,
  - GRANDI MOTORI TRIESTE, GUASCOR,
  - GE JENBACHER, JOHN DEERE,
  - MACK (11 & 12 L), MITSUBISHI,
  - MTU CONSTRUCTION & INDUSTRY 2000 & 4000 series,
  - PAXMAN, PERKINS,
  - ROLLS ROYCE BERGEN,
  - SEMT PIELSTICK,
  - WÄRTSILÄ.



## ADVANTAGES

### Improved corrosion and cavitation protection

- Thanks to its specific organic formulation, **COOLELF SUPRA** gives a cavitation protection higher than this provided by the current liquid coolants. The corrosion protection is also better almost for the aluminium parts present in the modern engines.

### No deposit formation risks in the cooling circuit

- The **COOLELF SUPRA** exceptional thermal stability eliminates the risks of minerals deposits particularly near the hot parts: liners top, cylinder heads, heat exchanger tubes, heating resistance. This ensure:
  - heat transfer conservation
  - fluid performances conservation
  - piping erosion risks (due to hard deposits circulation) suppression
  - circuit cleanliness
  - extended temperature sensitive components life time.

### Cost reduction

- The long life property of The **COOLELF SUPRA** allows by extended drain intervals the reduction of the coolant recycling costs.

TYPICAL CHARACTERISTICS	METHODS	UNITS	COOLELF SUPRA
Colour			Fluorescent yellow
Density at 15°C	ISO 3676	kg/m <sup>3</sup>	1.060
Alkalinity reserve at equivalence point (pH 3.5)	GFC PrI-L-111	cm <sup>3</sup> HCl 0.1N	14.8
pH	ASTM D 1287		8.2
Temperature of appearance of the first crystals in the cooling fluid		°C	- 26

The characteristics given in the table are mean values provided for illustrative purposes only.

## UTILISATION

It is essential that systems containing dirt arising from construction (new facilities) or corrosion (installations already in use) should be carefully flushed.

## PROCEDURE

1. Circulate the used fluid for at least one hour to bring any deposits into suspension.
2. Drain the water circuits fully (purging the lowest portions or areas where fluid may be retained).
3. Check the heaters and the expansion tank and clean if deposits are present.
4. Flush with clean water (2 rinses desirable), circulating water throughout the circuit. Drain and check that the filters are not blocked by the deposits.
5. Drain the circuit completely.
6. Fill with **COOLELF SUPRA**.