

# COOLELF CHP SUPRA



Coolant / heat transfer fluid

COOLELF CHP SUPRA is a “long-life” ready-to-use cooling liquid with a low monoethylene glycol content. Despite this content (antifreeze temperature:  $-7^{\circ}\text{C}$ ), COOLELF CHP SUPRA has a high specific organic additive concentration identical to that of a cooling liquid containing 40% GLACELF SUPRA antifreeze.

Its exclusive formula, totally free from phosphates, nitrites, amines and boron.

## APPLICATIONS

Engine cooling in cogen plants or in warm countries

- Industrial Diesel and gas engines cooling in cogeneration plants requiring an efficient thermal transfer with a very high corrosion and cavitation protection.
- Cooling of engines running in countries or conditions where a  $-7^{\circ}\text{C}$  antifreeze protection is sufficient.  
Before proceeding to fill a circuit which has contained a different product, it is strongly recommended that you undertake through rinsing to improve the maximum performances of the product.

## SPECIFICATIONS

International standards

- **COOLELF CHP SUPRA** complies with the following specifications:
  - ASTM D 3306
  - ASTM D 4985
  - AFNOR NF R 15-601
  - BS 6580
  - BS 5117
  - SAE J 1034

Engines manufacturers

- **COOLELF CHP SUPRA** is approved by:
  - GE-JENBACHER
  - MWM
  - WÄRTSILÄ W200, W200SG

## ADVANTAGES

Improved corrosion and cavitation protection

- Thanks to its specific organic formulation, **COOLELF CHP 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 CHP 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 CHP SUPRA** allows by extended drain intervals the reduction of the coolant recycling costs.

**Efficient heat transfert**

- **COOLELF CHP SUPRA** is specified for the cooling circuits of the engines of cogeneration plants not requiring major antifreeze protection, but demanding efficient heat transfer thanks to a high water content, while at the same time ensuring enhanced anticorrosion and anticavitation protection.

TYPICAL CHARACTERISTICS	METHODS	UNITS	COOLELF CHP SUPRA
Colour			Fluorescent yellow
Density at 15°C	ISO 3676	g/cm <sup>3</sup>	1.03
Alkalinity reserve at equivalence point	GFC PrL-111-03	MI HCl 0.1 N	16.8
pH	ASTM D 1287		8.2
Temperature of appearance of the first crystals in the cooling fluid	NF T 78102	°C	- 7

Above characteristics are mean values given as an information.

## 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 CHP SUPRA**.

**TOTAL LUBRIFIANTS  
INDUSTRIE**

06-10-2016 (supersedes 14-03-2013)

COOLELF CHP SUPRA

2/2



This lubricant used as recommended and for the application for which it has been designed does not present any particular risk.

A material safety data sheet conforming to the regulations in use in the E.C. can be obtained from your local commercial adviser or down loaded from [www.quick-fds.com](http://www.quick-fds.com).