

COOLELF SUPRA GF NP



Coolant

COOLELF SUPRA GF NP is a “long-life” 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. COOLELF SUPRA GF NP gives a freezing protection as low as - 37 °C.

APPLICATIONS

Engine cooling

- Nuclear plants emergency gen sets engine cooling.
- Before filling a circuit that previously contained another fluid, it is necessary to flush it to avoid the product performances degradation.

SPECIFICATIONS

International specifications

- Approved by the french electricity utility « EDF » according to the « PMUC » (Produits & Matériaux utilisables en Centrales) agreement.

COOLELF SUPRA GF NP complies with the following specifications:

- ASTM D 3306
- ASTM D 4656
- ASTM D 4985
- ASTM D 5345
- BS 5117
- BS 6580
- SAE J 1034
- AFNOR NF R 15-601

Engines manufacturers

- **COOLELF SUPRA GF NP** meets the requirements of the following manufacturers :

- CUMMINS
- DIESEL RICERCHE
- GE JENBACHER
- GE Oil & Gas Nuovo Pignone
- MAN
- MTU
- MWM
- PERKINS
- ROLLS ROYCE
- SEMT PIELSTICK
- WÄRTSILÄ

TOTAL LUBRIFIANTS
INDUSTRIE

07-10-2016 (supersedes 03-11-2010)

COOLELF SUPRA GF NP

1/2





TOTAL

ADVANTAGES

Improved corrosion and cavitation protection

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

TYPICAL CHARACTERISTICS	METHODS	UNITS	COOLELF SUPRA GF NP
Density at 15°C	ISO 3676	g/cm ³	1.071
Alkalinity reserve at equivalence point	GFC PrL-111-03	ml HCl 0.1 N	18.6
pH	ASTM D 1287		8.3
Temperature of appearance of the first crystals in the cooling fluid	NF T 78102	°C	- 37

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.

Fill with **COOLELF SUPRA GF NP**.

**TOTAL LUBRIFIANTS
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07-10-2016 (supersedes 03-11-2010)

COOLELF SUPRA GF NP

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.