



# COOLELF 33%

Ready to use coolant. Do not add water!

## APPLICATIONS

- **COOLELF 33%** provides long lasting protection against freezing and corrosion in the cooling circuits of petrol and diesel engines.
- **Service life:** it is recommended that the coolant be replaced **every 2 years**.
- **COOLELF 33%** is recommended for all cooling circuits in internal combustion engines.

**Recommendation:** drain the cooling circuit and flush with water before filling with the new product.

## PROPERTIES

- **COOLELF 33%** is a liquid coolant based on monoethylene glycol and selected inhibitors containing no amines, nitrites or phosphates.
- **COOLELF 33%** satisfies the main international specifications for antifreezes.
- **COOLELF 33%** provides effective protection against engine freezing (-15°C) or overheating.
- **COOLELF 33%** is ready to use, being already mixed with demineralised water the quality of which: eliminates any risk of hard deposits that can cause engine overheating by degrading the heat transfer properties or by blocking the circuits. ensures a practically zero electrical conductivity, reducing the causes of electrolytic corrosion.
- **COOLELF 33%** is also inert to elastomeric seals and paint.

## CHARACTERISTICS

COOLELF 33%	Units	TYPICAL VALUES
Density @ 15 °C	Kg/m <sup>3</sup>	1048
Colour	-	Light Blue
pH		8.02
Alkalinity reserve at the equivalence point (pH 5.5)	ml HCL 0.1N	4.4
Temperature at which the first crystals appear	°C	-15

The typical characteristics mentioned represent mean values

## SPECIFICATIONS

COOLELF 33% satisfies the international specifications for coolants.  
AFNOR NFR 15-601  
BS 6580

## STORAGE CONDITIONS

Product should be stored at temperatures above -20 °C and below 35 °C, preferably indoors at ambient temperatures. It is not advisable to expose the coolant to direct sunlight and humidity; this may lead to discolouration of the product. Use of galvanized steel is not recommended for the pipes or the components of the cooling system. This leads to deposit formation and there by affect the heat transfer properties of the coolant. Please refer to the Material Safety data sheet for further safety information.

TOTAL LUBRICANTS  
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COOLELF 33%  
N° TDS/DXB/12/06/360



This lubricant used in accordance with our recommendations and for the application for which it is intended does not represent a special hazard. A safety data file conforming to the requirements of current E.U. legislation is available from your local trade consultant.