COOLELF MDX -37°C



COOLELF MDX -37°C is a "long-life" coolant fluid based upon monoethylene glycol containing no amines, nitrites or phosphates.

COOLELF MDX -37°C coolant is recommended for all the cooling circuits in internal combustion engines, particularly MTU (all engines), MB (all engines without limitation) and MAN systems.

In accordance with French Decree n° 95-337 of 20th March 1995 concerning the distribution of certain products containing monoethylene glycol, COOLELF MDX -37°C contains a bittering agent to give it a bitter taste as security against accidental ingestion by children or users.

COOLELF MDX -37°C figures as a "speciality" in our range of liquid coolants

APPLICATIONS

Protection: -37°C

- ●COOLELF MDX -37°C is a permanent coolant fluid that can be used throughout the year: it provides effective protection against engine freezing or overheating.
- ●COOLELF MDX -37°C is ready to use and is already mixed with demineralised water, the quality of which:
- eliminates any risk of scaling that can cause engine overheating by degrading the heat transfer properties or by blocking circuits,
- ensures practically zero electrical conductivity, reducing the causes of electrolytic corrosion.

Working life

It is recommended that the coolant fluid should be replaced every two years.

●COOLELF MDX -37°C meets the international specifications for

antifreezes, as well as those of major manufacturers.

SPECIFICATIONS

AFNOR NFR 15-601 BS 6580

MAN 324 MB P325.0 DC: MB page 326.0

MTL 5048

MTU for all engines.

Daimler Chrysler for all engines. **GM-OPEL.**

• COOLELF MDX -37°C has been recognised as satisfactory for use in the engines of the following manufacturers:

GLACELF MDX is officially approved by the following manufacturers:

- **VAN HOOL**
- **STEYR**
- **PORSCHE**
- VW / AUDI / SEAT / SKODA







CUSTOMER BENEFITS

The function of a coolant fluid

• In a petrol or diesel engine, some 30 to 40% of the heat produced in combustion is not converted intonotion power and has to be dissipated. An engine's cooling system must be capable of removing this excess heat together with that due to friction of the moving parts.

The coolant fluid cools the different parts of the engine by heat transfer and gives up heat in the radiator.

Running an engine without coolant for only a few minutes is sufficient to cause piston seizing and cracks in the cylinder head owing to heat not being removed.

Corrosion protection of metals, especially aluminium

- ●COOLELF MDX -37°C provides an effective solution to the problems of corrosion affecting all the materials used in cooling circuits.
- COOLELF MDX -37°C performs well in the corrosion tests required by the specifications: hot plate corrosion and glassware corrosion.

Air or gas can enter a circuitin various ways, after which it exacerbates the phenomenon of cavitation; also the presence of oxygen in the circuit can affect the performance of corrosion inhibitors.

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•COOLELF MDX -37°C gives excellent protection against cavitation that can perforate liners and cause water pump problems.

In the extra-severe **ASTM D2809** test on an aluminium water pump – which examines corrosion-erosion due to cavitation – GLACELF MDX gained a **score** of 9/10.

Adding COOLELF MDX -37° C gives the coolant fluid an **alkalinity reserve** (to neutralise the acidity of the combustion gases) and **resistance to foaming.**

●COOLELF MDX -37°C is also inert to elastomeric seals and paint. We remind you that antifreeze and coolants containing monoethylene glycol must not be poured into the drains.

They are considered as special industrial wastes (<u>potentially hazardous to</u> <u>man and the environment</u>) and should be destroyed by approved disposal centres.

Protecting aluminium water pumps against corrosion and erosion caused by

cavitation

Optimised physical-chemical characteristics

CHARACTERISTICS

The typical characteristics mentioned represent mean values

| COOLELF MDX -37°C | | |
|---|-------------|----------------|
| Colour | | Green |
| Specific gravity at 15 °C | ASTM D1122 | 1.076 |
| pH, dilution 50% by vol. | ASTM D1287 | 8.1 |
| Alcalinity reserve(pH 5.5) | ASTM D 1121 | 7.7ml HCl 0.1N |
| Temperature at which crystal appear, 50% dilution by volume | ASTM D1177 | -37°C |

