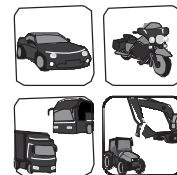




COOLELF PLUS -37°C

Ready-to-use coolant • Hybrid



DESCRIPTION

COOLELF PLUS -37°C is a "long life" coolant based upon monoethylene glycol and inorganic corrosion inhibitors (silicates), a long proven coolant and heat transfer technology. It contains also an organic inhibitor, it is a semi-organic technology.

COOLELF PLUS -37°C can be used in all cooling systems of combustion engines in cars, vans, trucks, buses, constructing machines and agricultural tractors.

COOLELF PLUS -37°C is the semi-organic product in our range of coolants.



SPECIFICATIONS

COOLELF PLUS -37°C meets the *international specifications* for antifreezes:

- AFNOR NFR 15-601
- ASTM D3306
- ASTM D4656
- ASTM D4985
- BS 6580

The antifreeze used in **COOLELF PLUS -37°C** is *officially approved* by the following manufacturers:

- VW TL-774 C (G 11)
- AUDI TL-774 C (G 11)
- SEAT TL-774 C (G 11)
- SKODA TL-774 C (G 11)
- BMW GS 94000
- PORSCHE TL-774 C (G 11)
- FIAT CHRYSLER MS-7170
- GM-OPEL GME L1301

COOLELF PLUS -37°C *meets the requirements* of:

- FORD
- MB 326.0
- FIAT-LANCIA 9.55523
- LADA TTM VAZ 1.97.717-97
- CUMMINS 85T8-2
- IVECO standard 18-1830
- MAN 324 Type NF
- MTU MTL 5048
- PERKINS
- VOLVO 128 6083 /002

CHARACTERISTICS

The typical characteristics mentioned represent mean values

TOTAL LUBRIFIANTS
Immeuble Spazio
562, avenue du Parc de l'île
92029 Nanterre cedex
France

COOLELF PLUS -37°C
Sheet updated: 11/15

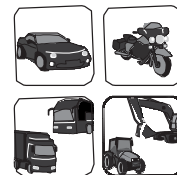


This coolant used in accordance with our recommendations and for the application for which it is intended does not represent a special hazard. A safety data file conforming to the requirements of current EC legislation is available from your local trade consultant.



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APPLICATIONS

■ PROTECTION ALL YEAR ROUND

COOLELF PLUS -37°C ensures maximum protection against freezing, until -37°C.

■ READY TO USE PRODUCT

COOLELF PLUS -37°C is ready for use, as a mix with demineralised water.

■ LIFETIME

Recommended oil change interval:

- at least **250 000 km** (3000 hours) in cooling systems of commercial vehicles,
- at least **100.000 km** (800 hours) in cooling systems of passenger cars.
- It is recommended to drain the cooling liquid after this mileage or every 3 years (whatever occurs first).

CUSTOMER BENEFITS

■ LONG-TERM PROTECTION AGAINST CORROSION OF METALS AND OF ALL TYPE OF MATERIALS

COOLELF PLUS -37°C offers an adequate solution against corrosion problems of all the materials in the cooling system

The additives in COOLELF PLUS -37°C give the coolant:

- + A reserve of alkalinity (to neutralise the acids resulting from the combustion gases)
- + Resistance to foaming
- + Compatibility with hard water (maximum 40°F).

COOLELF PLUS -37°C is inert to elastomeric seals and paints.

■ EXCELLENT QUALITY RATIO

HSE

All antifreezes and coolants based upon monoethylene glycol are regarded as special industrial wastes and must be disposed of in approved centres for environmental reasons.

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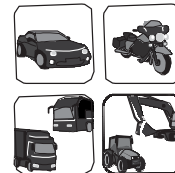


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PERFORMANCES

■ ASTM D1384 : GLASSWARE CORROSION TEST (336H/88°C/33%VOL)

	copper	solder	brass	steel	cast iron	aluminium
ASTM D3306 LIMITS	10	30	10	10	10	30
COOLELF PLUS	2	-3	2	-1	-1	0.0

■ ASTM D4340: ALUMINIUM HEAT REJECTION TEST (25% VOL)

ASTM D3306 LIMITS	1.0
COOLELF PLUS	< 0.1

■ ASTM D2570: SIMULATED SERVICE TEST (HRS/°C/25%VOL)

	copper	solder	brass	steel	cast iron	aluminium
ASTM D3306 LIMITS	20	60	20	20	20	60
COOLELF PLUS	7	-1	6	-1	-3	1

■ GM-OPEL: HOT FINGER TEST

	copper	solder	brass	steel	cast iron	aluminium
44% solution						
GM LIMITS	10	30	10	10	10	30
COOLELF PLUS	10	20	10	10	10	20
25% solution						
GM LIMITS	10	20	10	10	10	20
COOLELF PLUS	2	-3	2	-1	-1	0

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