



COOLELF FR RD

Ready-to-use coolant • O.A.T.



DESCRIPTION

COOLELF FR RD is a "long life" ready-to-use coolant based on monoethylene glycol and organic inhibitors of corrosion.

COOLELF FR RD is a cooling liquid that can be especially recommended in all cooling systems of combustion engines of Renault.

SPECIFICATIONS

COOLELF FR RD meets the *international specifications* for antifreezes:

- AFNOR NFR 15-601
- ASTM D3306
- ASTM D4656
- ASTM D4985
- ASTM D6210
- BS 6580

COOLELF FR RD *meets the requirements* of:

- Renault - Dacia Type D (41-01-001)

CHARACTERISTICS

APPEARANCE	-	CLEAR LIQUID
COLOUR	-	YELLOW FLUO
DENSITY AT 15 °C	ASTM D1122	1.069
RA	ASTM D1121	17.5
PH AT 20°C	ASTM D1287	8.2
TEMPERATURE AT WHICH THE FIRST ICE CRYSTALS OCCUR	ASTM D1177	-37°C

The typical characteristics mentioned represent mean values

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

COOLELF FR RD
Sheet updated: 02/16



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 FR RD ensures maximum protection against freezing, until -37°C .

■ READY TO USE PRODUCT

COOLELF FR RD is ready for use, as a mix with demineralised water.

■ MULTI-MATERIAL COMPATIBILITY

COOLELF FR RD can be used for cast iron as well as aluminium engines, and also in engine radiators in aluminium or copper alloy.

COOLELF FR RD is inert to elastomeric seals and paints.

■ LIFETIME

Light vehicles: up to 250,000 km depending on the manufacturer's recommendations (refer to the vehicle's maintenance manual).

CUSTOMER BENEFITS

■ VERY LONG-TERM PROTECTION AGAINST METALS CORROSION

Organic technology ensures a long-term action to offer maximum protection against any type of corrosion, erosion and cavitation, even at high temperatures.

■ MAXIMUM HEAT TRANSFER

The organic additives in **COOLELF FR RD** give to the coolant:

- + Chemical neutrality (pH 7-8.5),
- + A reserve of alkalinity to neutralise the acids resulting from the combustion gases,
- + Resistance to foaming,
- + Compatibility with hard water (maximum 40°F).

Avoids formation of deposits (no risk of limescale) and leaves surfaces clean.

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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