



# COOLELF AUTO SUPRA -37°C

Ready-to-use coolant • O.A.T.



## DESCRIPTION

COOLELF AUTO SUPRA -37°C is the premium product of our cooling liquid range.

COOLELF AUTO SUPRA -37°C is a «very long life» coolant based on monoethylene glycol and organic inhibitors of corrosion.

COOLELF AUTO SUPRA -37°C is a cooling liquid that can be used in all cooling systems of combustion engines in cars, vans, trucks, buses, constructing machines and agricultural tractors.

COOLELF AUTO SUPRA -37°C contains no silicates, phosphates, chromates, nitrites or boron.



## SPECIFICATIONS

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

- AFNOR NFR 15-601
- ASTM D3306
- ASTM D4656
- ASTMD4985
- ASTM D6210
- BS 6580
- JASOM325
- SAE J1034
- NATO S-759

COOLELF AUTO SUPRA -37°C is **officially approved** by the following manufacturers:

- VW SEAT AUDI SKODA PORSCHE :  
VW TL 774 D/F (G12/G12+)
- DAIMLER MB 326.3
- FORD WSS-M97B44
- MAZDA MEZ MN 121 D
- JAGUAR LAND-ROVER STJLR 651.5003
- MAN 324 Typ SNF
- DEUTZ DQC.CB-14
- GM 6277M
- GMW 3420
- GE Jenbacher TA 1000-0201
- MWM 2091/11
- CAT 2091/11
- CUMMINS IS series u N14
- KOMATSU 07 892 (2009)
- LIEBHERR MD1-36-130
- MTU MTL 5048
- DAF 74002
- RENAULT 41-01-001/ S Type D

COOLELF AUTO SUPRA -37°C **meets the requirements** of:

- SAAB
- LEYLAND TRUCKS
- Volvo VCS
- SCANIA
- FENDT; VALTRA
- CASE; NEW HOLLAND  
MAT3624
- CUMMINS CES 14439
- CUMMINS CES 14603
- WARTSILLA 32-9011
- CAT EC-1

## CHARACTERISTICS

COLOUR	-	PINK TO FLUORESCENT ORANGE
DENSITY AT 15°C	ASTMD1122	1.068
PH	ASTMD1287	8.4
ALKALINITY RESERVE (PH 5.5)	ASTMD1287	2.8ML HCl 0.1 N
TEMPERATURE AT WHICH THE FIRST ICE CRYSTALS OCCUR	ASTMD1177	-38°C
BOILING TEMPERATURE	ASTMD1120	108°C

The typical characteristics mentioned represent mean values

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

COOLELF AUTO SUPRA -37°C

Sheet updated: 01/19



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.



# COOLELF AUTO SUPRA -37°C

Ready-to-use coolant • O.A.T.



## APPLICATIONS

- PROTECTION ALL YEARROUND** COOLELF AUTO SUPRA-37°C ensures maximum protection against freezing, until -37°C.
- READY TO USE PRODUCT** COOLELF AUTO SUPRA-37°C is ready for use, as a mix with demineralised water.
- MULTI-MATERIAL COMPATIBILITY** COOLELF AUTO SUPRA-37°C can be used for cast iron as well as aluminium engines, and also in engine radiators in aluminium or copper alloy.  
  
COOLELF AUTO SUPRA-37°C is inert to elastomeric seals and paints.
- LIFETIME** Recommended interval of use:
  - 500 000 km/4 years when used in trucks
  - 250 000 km/5 years when used in cars.

## 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 AUTO SUPRA -37°C 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.

## 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 AUTO SUPRA	1.9	0.3	1.6	-0.5	-1.4	4.6

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

	WEIGHT LOSS(MG/CM²/WEEK)
ASTM D3306 LIMITS	1.0
COOLELF AUTO SUPRA	< 0.2

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

## COOLELF AUTO SUPRA -37°C

Sheet updated: 01/19



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.



# COOLELF AUTO SUPRA -37°C

Ready-to-use coolant • O.A.T.



## PERFORMANCES

### ASTM D2570: SIMULATED SERVICE TEST

	WEIGHT LOSS (MG/CM <sup>2</sup> )					
	copper	solder	brass	steel	cast iron	aluminium
ASTM D3306 LIMITS	20	60	20	20	20	60
COOLELF AUTO SUPRA	<b>2.0</b>	<b>1.0</b>	<b>2.0</b>	<b>1.0</b>	<b>-3.0</b>	<b>1.0</b>

### AGING TEST: VERY SEVERE CORROSION TEST

TEST CONDITIONS	TYPICAL CONDITIONS	SEVERE CONDITIONS
TEST DURATION	169 H	504 H
FLUID CONTENT	5.0 L	6.0 L
PRESSURE	1.5 BAR	2.5 BAR
FLOW	3.0L/MIN	3.5L/MIN
HEAT INPUT	5500 W	5000 W
TEMPERATURE IN HEATING VESSEL	95°C	115°C
TEMPERATURE IN COOLING VESSEL	75°C	95°C
CONCENTRATION OF COOLANT IN WATER	40% VOL	20% VOL

	AL (SAE 329)	ALMN	CAST IRON	STEEL	CU	CUZN	SOLDER CB
<b>REFERENCE COOLANT</b>							
AFTER INITIAL CLEANING	82.10	64.02	-2.19	-1.68	3.62	2.90	21.45
AFTER FINAL CLEANING	125.01	94.33	-0.36	0.11	4.99	5.66	25.83
<b>COOLELF AUTOSUPRA</b>							
AFTER INITIAL CLEANING	<b>9.77</b>	<b>0.71</b>	<b>-0.07</b>	<b>0.17</b>	<b>1.44</b>	<b>1.62</b>	<b>0.43</b>
AFTER FINAL CLEANING	<b>23.58</b>	<b>4.14</b>	<b>0.0</b>	<b>0.24</b>	<b>2.63</b>	<b>2.53</b>	<b>0.55</b>

### ASTM D6210: HEAVY DUTY ENGINE COOLANTS

As stated in latest revision of ASTM D6210: "coolants that have completed the Test Method D7583 (test method to demonstrate coolant cavitation protection performance) with a maximum pit count of 200 are regarded as passing ASTM D6210"

ASTM D7583 JOHN DEERE DIESEL ENGINE COOLANT CAVITATION TEST RESULT:

LINER NUMBER	1	2	3	4	5	6	TOTAL
PIT COUNT COOLELF AUTO SUPRA -37°C	31	38	18	16	19	9	131
D7583 REQUIREMENT							< 200

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

**COOLELF AUTO SUPRA -37°C**

Sheet updated: 01/19



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.