



COOLELF AUTO SUPRA -37°C

Ready-to-use coolant ■ D.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
- JISK2234
- SAE J1034
- NATOS-759

COOLELF AUTO SUPRA -37°C is obtained by dilution in DI water of an **antifreeze 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-D
- MAZDA MEZ MN 121D
- JAGUAR STJLR 651.5003
- MAN 324 TypSNF
- DEUTZ DQCCB-14
- DAF 74002
- GMW 3420
- JENBACHER TA1000-0200
- MWM 0199-99-2091/12
- WARTSILA 32-9011
- CUMMINS IS series uN14
- CUMMINS CES 14439
- LIEBHERR MD1-36-130
- MTU MTL 5048
- VALTRA
- SAAB B 040 1065
- LEYLAND TRUCKS DW03245403

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

- RENAULT RNUR 41-01-001/-S Type D
- CASE NEW HOLLAND MAT 3624
- FENDT
- KOMATSU 07.892 (2009)
- CUMMINS CES14603
- ASTON MARTIN
- FIAT 9,55523
- CLAAS
- JOHN DEERE JDM H5

CHARACTERISTICS

COLOUR	-	PINK TO FLUORESCENT ORANGE
DENSITY AT 15°C	ASTMD1122	1.068
PH	ASTMD1287	8.4
ALKALINITY RESERVE (PH 3.5)	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

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Sheet updated: 06/20



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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 oil change interval:
 - **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

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PERFORMANCES

■ ASTM D2570: SIMULATED SERVICE TEST

	WEIGHT LOSS(MG/CM²)					
	copper	solder	brass	steel	cast iron	aluminium
ASTM D3306 LIMITS	20	60	20	20	20	60
COOLELF AUTO SUPRA	2.0	1.0	2.0	1.0	-3.0	1.0

■ 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	50% VOL	20% VOL

	AL (SAE329)	ALMN	CASTIRON	STEEL	CU	CUZN	SOLDERCB
REFERENCE COOLANT							
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
COOLELF AUTOSUPRA							
AFTER INITIAL CLEANING	9.77	0.71	-0.07	0.17	1.44	1.62	0.43
AFTER FINAL CLEANING	23.58	4.14	0.0	0.24	2.63	2.53	0.55

■ 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

TOTALLUBRIFIANTS
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