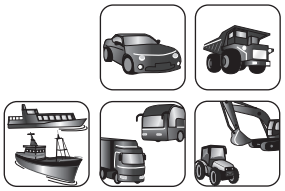
COOLELF AUTO SUPRA -26°C

Ready-to-use coolant • O.A.T.



DESCRIPTION

COOLELF AUTO SUPRA -26°C is the top-of-the-range product of our cooling liquid range.

COOLELF AUTO SUPRA -26°C is a «very long life» coolant based on monoethylene glycol and organic corrosion inhibitors.

COOLELF AUTO SUPRA -26°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 -26°C contains no silicates, phosphates, chromates, nitrites or boron.

SPECIFICATIONS

COOLELF AUTO SUPRA -26°C meets the ***international specifications*** for antifreezes:

- AFNOR NFR 15-601
- ASTM D3306
- ASTM D4656
- ASTM D4985
- ASTM D6210
- BS 6580
- JASO M325
- SAE J1034
- NATO S-759

COOLELF AUTO SUPRA -26°C is ***officially approved*** by the following manufacturers:

- VW SEAT AUDI SKODA PORSCHE : VW TL 774 D/F/G (G12/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

COOLELF AUTO SUPRA -26°C ***meets the requirements*** of:

- RENAULT 41-01-001/ S Type D
- SAAB
- LEYLAND TRUCKS
- SCANIA
- WARTSILLA 32-9011
- CUMMINS CES 14439
- CUMMINS CES 14603

CHARACTERISTICS

COLOUR	-	PINK TO FLUORESCENT ORANGE
DENSITY AT 15 °C	ASTM D1122	1.053
PH	ASTM D1287	8.6
ALKALINITY RESERVE (PH 3.5)	GFC PR L-110-03	2.2ML HCl 0.1N
TEMPERATURE AT WHICH THE FIRST ICE CRYSTALS OCCUR	ASTM D1177	-27°C
BOILING TEMPERATURE	ASTM D1120	106°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 -26°C
Sheet updated: 02/16

afaq SO 9001 Qualité NOR CERTIFICATION

This coolant used in accordance with our recommendations and for the application for which it is intended does not represent a special hazard.
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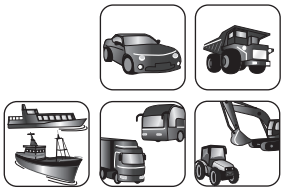

APPLICATIONS

PROTECTION ALL YEAR ROUND

COOLELF AUTO SUPRA- 26°C ensures maximum protection against freezing, until -26°C.

READY TO USE PRODUCT

COOLELF AUTO SUPRA -26°C is ready for use, as a mix with demineralised water.

MULTI-MATERIAL COMPATIBILITY

COOLELF AUTO SUPRA -26°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 -26°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 -26°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)

WEIGHT LOSS (MG/COUPON)	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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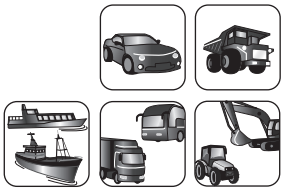

PERFORMANCES

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

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 -26°C	31	38	18	16	19	9	131
D7583 REQUIREMENT							< 200

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	3.0 L/MIN	3.5 L/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
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 AUTO SUPRA							
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

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