



# 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 D4985
- ASTM D6210
- BS 6580
- JIS K2234
- SAE J1034
- NATO S-759

COOLELF AUTO SUPRA -26°C is obtained by dilution in deionized 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
- MAZDA MEZ MN 121 D
- JAGUAR STJLR651.5003
- MAN 324 Typ SNF
- DEUTZ DQC CB-14
- DAF 74002
- GMW3420
- GE Jenbacher TA 1000-0200
- MWM 0199-99-2091/12
- WARTSILA 32-9011
- CUMMINS IS series u N14
- CUMMINS CES 14439
- LIEBHERR MD1-36-130
- MTU MTL 5048
- VALTRA
- SAAB B 040 1065
- LEYLAND TRUCKS DW03245403

COOLELF AUTO SUPRA -26°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	1.053
PH	ASTMD1287	8.6
ALKALINITY RESERVE (PH 5.5)	GFC PR L-110-03	2.2ML HCl 0.1 N
TEMPERATURE AT WHICH THE FIRST ICE CRYSTALS OCCUR	ASTMD1177	-27°C
BOILING TEMPERATURE	ASTMD1120	106°C

The typical characteristics mentioned represent mean values

TOTAL OIL ASIA-PACIFIC PTE LTD

182 Cecil Street  
#27-01 Frasers Tower  
Singapore 069547

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## APPLICATIONS

- PROTECTION ALL YEARROUND** 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 in engine radiators with aluminium or copper alloy.  
COOLELF AUTO SUPRA -26°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 -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 D7583 REQUIREMENT	31	38	18	16	19	9	131 < 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	3.0L/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
CLEANING AFTER FINAL CLEANING	125.01	94.33	-0.36	0.11	4.99	5.66	25.83
<b>COOLELF AUTOSUPRA</b>							
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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