



ANTI-FREEZING



ANTI-CORROSION



ANTI-BOILING



Coolelf Auto Supra -37°C

Ready-to-use coolant • O.A.T.

DESCRIPTION

Coolelf Auto Supra -37°C is the top-of-the-range product of our cooling liquid range.

Coolelf Auto Supra -37°C is a “very-long-life” coolant based on mono ethylene glycol and organic corrosion inhibitors.

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

The antifreeze used in Coolelf Auto Supra -37°C meets the **international specifications** for coolants:

- NFR 15-601-91
- ASTM D3306-20
- ASTM D4656-98
- ASTM D6210-17
- BS 6580.2010
- FVV Heft R530
- FVV Heft R443
- KS M 2142:2014
- MIL-BT-PS-606 A
- MIL-DCSEA 615/C
- MIL-E/L-1415b
- MIL-FSD 8704
- NATO S-759
- Önorm V5123
- UNE 26-361-88/1
- GB 29743-2013
- GB 27943.1-2022
- TMC RP 364
- GB 29743 LEC-II

Coolelf Auto Supra -37°C is obtained by dilution in deionized water of an **antifreeze officially approved** by the following manufacturers:

- VW SEAT AUDI SKODA PORSCHE:
TL 774 D / F (G12/G12+)
- FORD WSS-M97B44-D
- MAZDA MEZ MN 121D
- JAGUAR LAND ROVER STJLR 651.5003
- MAN 324 Typ SNF
- DEUTZ DQC CB-14
- DAIMLER DTFR 29D110 (former MB 326.3)
- DAF 74002
- GMW 3420 / GMW 18270
- JENBACHER TA 1000-0200
- MWM 0199-99-2091/12
- WARTSILA 32-9011
- CUMMINS ISBe engines
- CUMMINS CES 14439
- LIEBHERR MD1-36-130
- MTU MTL 5048
- SAAB B 040 1065
- LEYLAND TRUCKS DW03245403
- BERGEN ENGINES 2.13.01
- SKODA 61-0-0257
- JAGUAR CMR 8229
- CW MAN 175D
- MAN B&W D36 5600
- DETROIT DFS93K217
- DETROIT DFS93K227
- SACM DIESEL DLP799861
- FOTON Q-FPT 2313005-2013
- CATERPILLAR GCM34
- BYD

Coolelf Auto Supra -37°C **meets the requirements of:**

- RENAULT TRUCKS 41-01-001/--S
- CASE NEW HOLLAND MAT 3624
- CASE NEW HOLLAND MAT 3724
- MACK 014 GS 17009
- KOMATSU 07.892 (2017)
- CUMMINS CES 14603
- IVECO 18-1830
- FIAT 9,55523
- JOHN DEERE JDM H5



TotalEnergies

TotalEnergies Lubrifiants
Immeuble Spazio
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Coolelf Auto Supra -37°C | Sheet updated: 06/2024

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.

CHARACTERISTICS

| COLOUR | - | PINK TO FLUORESCENT ORANGE |
|---|------------|----------------------------|
| Density at 15°C | ASTM D1122 | 1.068 |
| pH | ASTM D1287 | 8.4 |
| Alkalinity Reserve (pH 5.5) | ASTM D1121 | 2.8 mL HCl 0.1 N |
| Temperature at which the first ice crystals occur | ASTM D1177 | -38°C |
| Boiling Temperature | ASTM D1120 | 108°C |

The typical characteristics mentioned represent mean values

APPLICATION

PROTECTION ALL YEAR ROUND

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 demineralized water.

Coolelf Auto Supra -37°C can be used for cast iron as well as aluminium engines, and in engine radiators in aluminium or copper alloy.

MULTI-MATERIAL COMPATIBILITY

Coolelf Auto Supra -37°C is inert to elastomeric seals and paints.

LIFETIME

Recommended coolant change interval*:
• 500,000 km / 4 years when used in trucks.
• 250,000 km / 5 years when used in cars.

**It is recommended to refer to the vehicle's maintenance manual.*



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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 neutralize 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 mono ethylene glycol are regarded as special industrial wastes and must be disposed of in approved centres for environmental reasons.



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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 | 0.1 | 1.6 | -0.5 | -1.4 | 4.6 |

ASTM D4340: ALUMINIUM HEAT REJECTION TEST (25% vol)

| | WEIGHT LOSS (mg/cm ² /week) |
|--------------------|--|
| ASTM D3306 LIMITS | 1.0 |
| Coolelf Auto Supra | <0.2 |

ASTM D2570: SIMULATED SERVICE TEST (48H/25%VOL)

| | WEIGHT LOSS (mg/coupon) | | | | | |
|--------------------|-------------------------|--------|-------|-------|-----------|-----------|
| | 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 | 31 | 38 | 18 | 16 | 19 | 9 | 131 |
| D7583 REQUIREMENT | | | | | | | <200 |

Coolelf Auto Supra trade name on tables represent either concentrated antifreeze or different dilutions of the concentrated product as per official test parameters.



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PERFORMANCES

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 |

| REFERENCE COOLANT | Al (SAE 329) | AlMn | CAST IRON | STEEL | Cu | CuZn | SOLDER CB |
|---------------------------|-----------------|-------|--------------|-------|------|------|--------------|
| 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 | Al (SAE329) | AlMn | CAST IRON | STEEL | Cu | CuZn | SOLDER CB |
| 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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