



ANTI-FREEZING



ANTI-CORROSION



ANTI-BOILING



Coolelf Auto Supra 2F -37°C

Ready-to-use coolant • O.A.T. • 2-EHA free

DESCRIPTION

Coolelf Auto Supra 2F -37°C is the top-of-the-range product of our cooling liquid range.

Coolelf Auto Supra 2F -37°C is a “very-long-life” coolant based on mono ethylene glycol and organic corrosion inhibitors.

Coolelf Auto Supra 2F -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. It can also be used in EVs for indirect cooling of battery, when there is no specific electrical conductivity requirement from the OEM.

Coolelf Auto Supra 2F -37°C is free from 2-EHA, nitrite and borate.

Coolelf Auto Supra 2F -37°C is designed to seamlessly replace Coolelf Auto Supra -37°C product.

SPECIFICATIONS

The antifreeze used in Coolelf Auto Supra 2F -37°C meets the **international specifications** for coolants:

- ASTM D3306-20
- BS 6580:2010
- NF R15-601-20

Coolelf Auto Supra 2F -37°C **meets the requirements of:**

- RENAULT 41-01-001/--S
- RENAULT 41-01-001/--T

Coolelf Auto Supra 2F -37°C is obtained by dilution in deionized water of an **antifreeze suitable for use** by the following manufacturers:

- | | | |
|---|--------------------------------|--------------------------|
| • VW / AUDI / SEAT / SKODA TL-774 D, TL-774 F | • DAIMLER DTFR 29D110 | • MAN 324 TYP SNF |
| • FORD WSS-M97B44-D | • DEUTZ DQC CB-14 | • BERGEN ENGINES 2.13.01 |
| • FOTON Q-FPT 2313005-2013 | • SACM DIESEL DLP799861 | • IVECO 18-1830 |
| • CHEVROLET / OPEL / VAUXHALL GMW 3420, GMW 18270 | • DETROIT DFS93K217, DFS93K227 | • DAF 74002 |
| • FIAT 9,55523 | • MAN B&W D36 5600 | • SAAB B 040 1065 |
| • LEYLAND TRUCKS DW03245403 | • CUMMINS CES 14603, CES 14439 | |



TotalEnergies

TotalEnergies Lubrifiants
Immeuble Spazio
562, avenue du Parc de l'île
92029 Nanterre cedex France

Coolelf Auto Supra 2F -37°C | Sheet updated: 04/2024

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		ORANGE
Density at 20°C	ASTM D5931	1.072
pH at 20°C	ASTM D1287	8.7
Alkalinity Reserve	ASTM D1121	3.0 mL HCl 0.1 N
Temperature at which the first ice crystals occur	ASTM D1177	-36.4°C
Boiling Temperature	ASTM D1120	109°C

The typical characteristics mentioned represent mean values

APPLICATION

PROTECTION ALL YEAR ROUND

Coolelf Auto Supra 2F -37°C ensures maximum protection against freezing, until -37°C.

READY TO USE PRODUCT

Coolelf Auto Supra 2F-37°C is ready for use, as a mix with demineralized water.

Coolelf Auto Supra 2F -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 2F -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.*



TotalEnergies

TotalEnergies Lubrifiants
Immeuble Spazio
562, avenue du Parc de l'île
92029 Nanterre cedex France

Coolelf Auto Supra 2F -37°C | Sheet updated: 04/2024

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.



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 2F -37°C** give to the coolant:

- Chemical neutrality (pH 8.2 - 9.2),
- 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.



TotalEnergies

TotalEnergies Lubrifiants
Immeuble Spazio
562, avenue du Parc de l'île
92029 Nanterre cedex France

Coolelf Auto Supra 2F -37°C | Sheet updated: 04/2024

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.

PERFORMANCES

ASTM D1384: GLASSWARE CORROSION TEST

	WEIGHT LOSS (mg/coupon)					
	Copper	Solder	Brass	Steel	Cast Iron	Aluminium
ASTM D3306 LIMITS	10	30	10	10	10	30
Coolelf Auto Supra 2F	0	1	8	1	0	2

ASTM D4340: ALUMINIUM HEAT REJECTION TEST

	WEIGHT LOSS (mg/cm ² /week)	pH after test
ASTM D3306 LIMITS	1.0	Report
Coolelf Auto Supra 2F	-0.1	8.1

ASTM D2570: SIMULATED SERVICE CORROSION TEST

	WEIGHT LOSS (mg/coupon)					
	Copper	Solder	Brass	Steel	Cast Iron	Aluminium
ASTM D3306 LIMITS	20	60	20	20	20	60
Coolelf Auto Supra 2F	1	1	1	0	3	37

ASTM D2809 – WATER PUMP CAVITATION TEST

	PUMP RATING
ASTM D3306 LIMITS	> = 8
Coolelf Auto Supra 2F	8

ASTM D7473 – AFNOR NF T 15-602-6 – HARD WATER STABILITY

	AMOUNT OF DEPOSIT (v/v%)
Coolelf Auto Supra 2F	No precipitate

Coolelf Auto Supra 2F trade name on tables represent either concentrated antifreeze or different dilutions of the concentrated product as per official test parameters.



TotalEnergies

TotalEnergies Lubrifiants
Immeuble Spazio
562, avenue du Parc de l'île
92029 Nanterre cedex France

Coolelf Auto Supra 2F -37°C | Sheet updated: 04/2024

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.



PERFORMANCES

MTU – DYNAMIC HEAT TRANSFER TEST (2cellIn 40v%, 1890W, 48h)

	WEIGHT CHANGE IN MG/COUPON							
	Copper	Solder	Brass	Steel	Cast Iron	Al Alloy 1	Al Alloy 2	Cast Al
ASTM D3306 LIMITS	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15
Coolelf Auto Supra 2F	0.2	0.6	0.3	0.3	4.1	-0.8	-0.9	-1.6

	pH	
	Before test	After test
Coolelf Auto Supra 2F	8.8	8.7

	WEIGHT CHANGE IN MG/COUPON	
	Coolelf Auto Supra 2F	Specification
Cast iron top	14.2	< 30
Cast iron bottom	17.5	< 30
Cast aluminium top	0.1	< 30
Cast aluminium bottom	0.4	< 30

	TEMPERATURE CHANGE IN C°	
	Coolelf Auto Supra 2F	Specification
Cast iron set	2.3	Max 10
Cast aluminium set	-1.9	Max 10

Coolelf Auto Supra 2F trade name on tables represent either concentrated antifreeze or different dilutions of the concentrated product as per official test parameters.



TotalEnergies

TotalEnergies Lubrifiants
Immeuble Spazio
562, avenue du Parc de l'île
92029 Nanterre cedex France

Coolelf Auto Supra 2F -37°C | Sheet updated: 04/2024

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.