

## Cooler engine, greater peace of mind

Our antifreeze and coolants range provides the most suitable protection against engine overheating, while inhibiting rust, corrosion and cavitation. It contributes to extending your vehicle's life and enables worry-free drives.



**TotalEnergies**



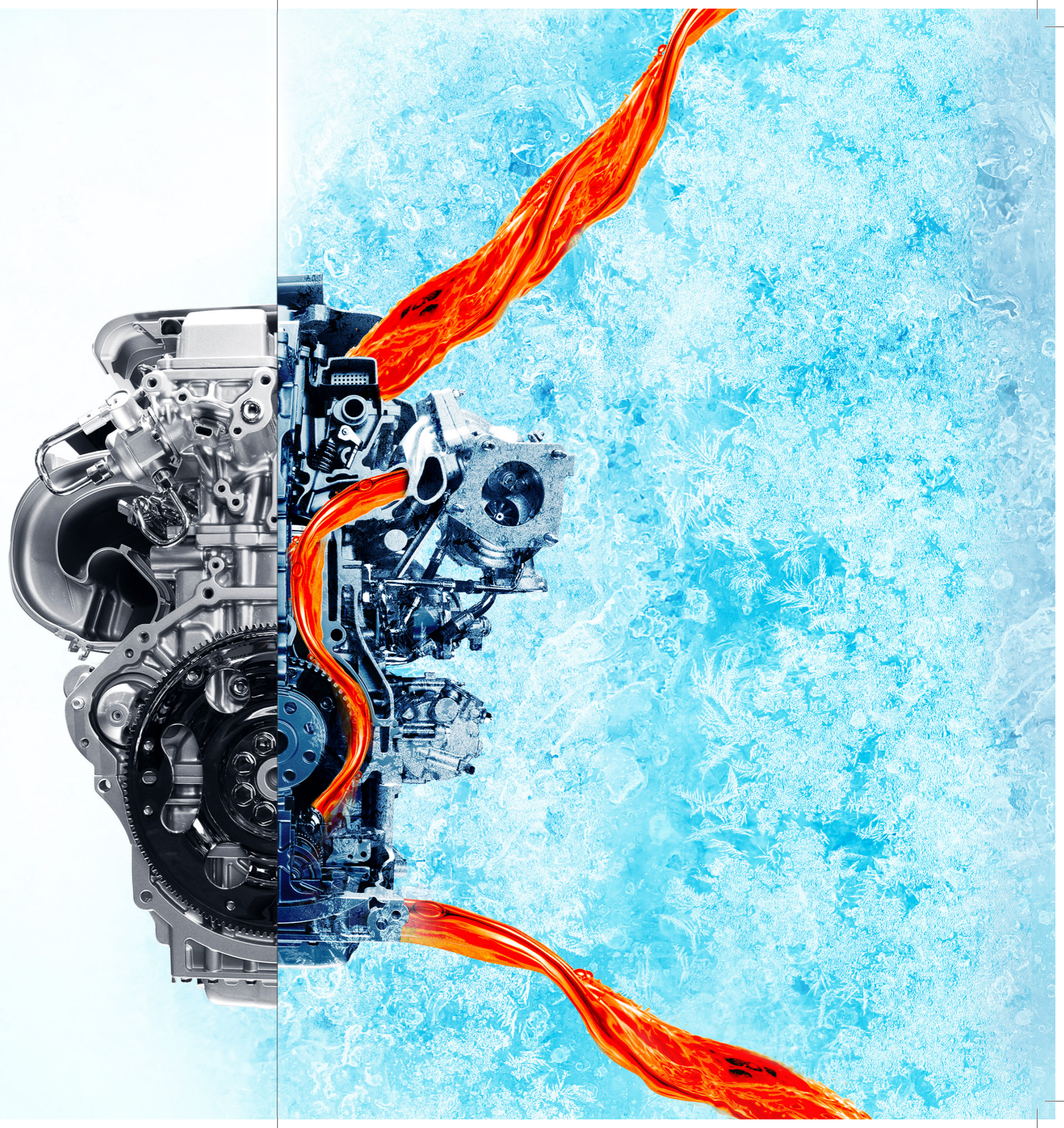
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# CONTENTS

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Coolelf Auto Supra -26°	03
Coolelf Auto Supra -37°	05
Coolelf Eco BS -22°	07
Coolelf Si-OAT -37°	09
Coolelf Plus -37°	11
Coolelf MDX -26°	13
Coolelf MDX -37°	15

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# Coolelf Auto Supra -26°C

READY-TO-USE COOLANT • O.A.T.



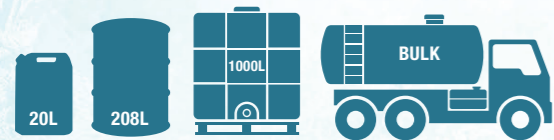
ANTI-FREEZING



ANTI-BOILING



ANTI-CORROSION



Coolelf Auto Supra -26°C is a “very-long- life” coolant based on monoethylene glycol and organic inhibitors of corrosion.

Coolelf Auto Supra -26°C is the top-of-the-range product of our cooling liquid range.



AFNOR NFR 15-601  
ASTM D3306/  
D4656/D4985/  
D6210  
JASO M325  
SAE J1034  
OEM  
HOMOLOGATIONS

COOLANT  
READY-TO-USE 1L  
-26°C

## SPECIFICATIONS

Coolelf Auto Supra -26°C meets the **international specifications** for antifreezes:

- AFNOR NFR 15-601
- ASTM D6210
- SAE J1034
- ASTM D3306
- BS 6580
- NATO S-759
- ASTM D4985
- JIS K2234

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
- DEUTZ DQCCB-14
- CUMMINS CES 14439
- PORSCHE :
- DAF 74002
- LIEBHERR MD1-36-130
- VW TL 774 D /(G12G12+)
- GMW3420
- MTU MTL 5048
- DAIMLER MB 325.3/326.3
- JENBACHER TA
- VALTRA
- FORD WSS-M97B44-D
- 1000-0200
- SAAB B 040 1065
- MAZDA MEZ MN 121D
- MWM
- LEYLAND TRUCKS DW03245403
- JAGUAR STJLR
- 0199-99-2091/12
- YANMAR
- 651.5003
- WARTSILA 32-9011
- CUMMINS IS
- MAN 324 TypSNF
- series u N14

Coolelf Auto Supra -26°C **meets the requirements of:**

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

## 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 (pH7-8.5),
- Resistance to foaming,
- A reserve of alkalinity to neutralise the acids resulting from the combustion gases,
- Compatibility with hard water (maximum 40°F).

Avoids formation of deposits (no risk of limescale) and leaves surfaces clean.

# Coolelf Auto Supra -37°C

READY-TO-USE COOLANT • O.A.T.



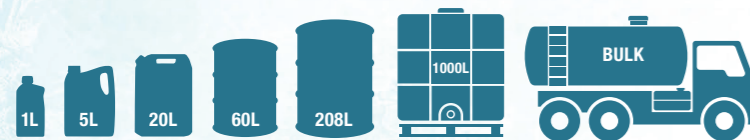
ANTI-FREEZING



ANTI-BOILING

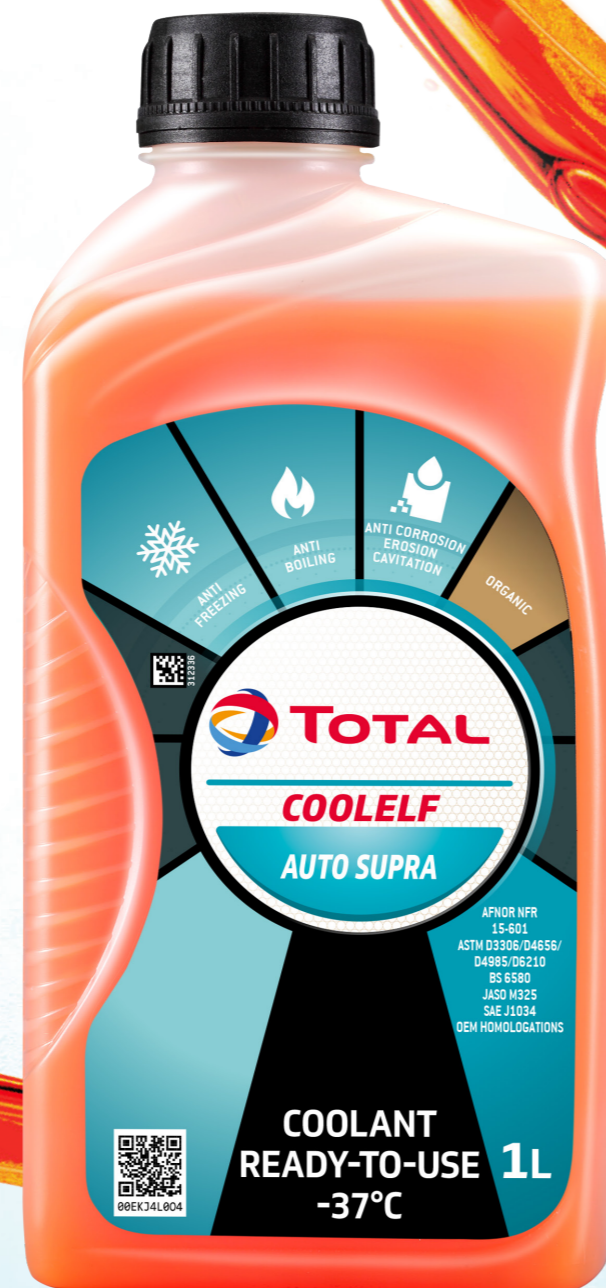


ANTI-CORROSION



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 the premium product of our cooling liquid range.



## SPECIFICATIONS

Coolelf Auto Supra -37°C meets the **international specifications** for antifreezes:

- AFNOR NFR 15-601
- ASTM D3306
- ASTM D4985
- ASTM 4656
- ASTM D6210
- BS 6580
- JIS K2234
- SAE J1034
- NATO S-759

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
- MAN 324 TypSNF
- CUMMINS IS series u N14
- PORSCHE :VW TL 774 D / F (G12/G12+)
- DEUTZ DQCCB-14
- CUMMINS CES 14439
- DAF 74002
- LIEBHERR MD1-36-130
- DAIMLER MB 325.3/326.3
- GMW3420
- MTU MTL 5048
- FORD WSS-M97B44-D
- JENBACHER TA 1000-0200
- VALTRA
- MAZDA MEZ MN 121D
- MWM 0199-99-2091/12
- SAAB B 040 1065
- JAGUAR STJLR 651.5003
- WARTSILA 32-9011
- LEYLAND TRUCKS DW03245403
- YANMAR

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

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

## 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 (pH7-8.5),
- Resistance to foaming,
- A reserve of alkalinity to neutralise the acids resulting from the combustion gases,
- Compatibility with hard water (maximum 40°F).

Avoids formation of deposits (no risk of limescale) and leaves surfaces clean.

# Coolelf Eco BS -22°C

READY-TO-USE COOLANT • O.A.T.



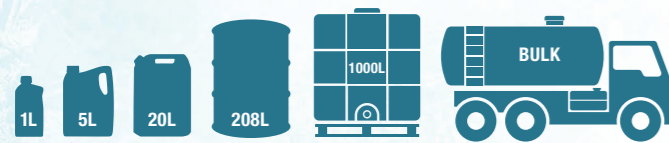
ANTI-FREEZING



ANTI-BOILING



ANTI-CORROSION



Coolelf Eco BS -22°C is an economical OAT "ready-to-use", providing frost and corrosion protection.

Coolelf Eco BS -22°C is a cooling liquid adapted to cooling systems of combustion engines of in cars and vans, trucks, construction machinery and agricultural tractors, except the EURO 6 engines.



## SPECIFICATIONS

Coolelf Eco BS -22°C meets the [international specifications](#) for antifreezes:

- BS 6580

Coolelf Eco Bs -22°C conforms to British Standard BS 6580:1992 and BS 6580:2010 as well as those of major manufacturers.

## CUSTOMER BENEFITS

### PROTECTION AGAINST METALS CORROSION

Coolelf Eco Bs -22°C offers the following benefits to the user:

- Corrosion protection, also for nonferrous metals
- Frost protection,
- Boiling protection,
- Miscibility,
- Seal compatibility
- Hard water stability
- Low cost

### EXCELLENT PERFORMANCE

### NO DEPOSITS

The organic additives prevent deposit formation, keep the surface clean and optimise the heat transfer.

# Coolelf Si-OAT -37°C

READY-TO-USE COOLANT • O.A.T.



ANTI-FREEZING



ANTI-BOILING



ANTI-CORROSION



Coolelf Si-OAT -37°C is a "very-long-life" coolant made of monoethylene glycol.

Coolelf Si-OAT -37°C has fast, effective protective properties. It provides a high level of protection against damage caused by freezing, cavitation, corrosion and overheating.



## SPECIFICATIONS

Coolelf Si-OAT -37°C meets the **international specifications** on coolants:

- AFNOR NFR 15-601
- ASTM D 3306
- ASTM D 4985
- BS 6580 : 2010
- SAE J1034
- CUNA NC 956-16

Coolelf Si-OAT -37°C is stringently **approved** by the following manufacturers:

- VW / AUDI / SEAT
- SKODA / LAMBORHINI
- BENTLEY / PORSCHE
- BUGATTI: VW TL774-G
- DAIMLER / MERCEDES
- BENZ: MB-APPROVAL 326.5 AND 326.6
- MAN 324 TYPE SI-OAT
- CUMMINS CES 14603

## CUSTOMER BENEFITS

### EXCELLENT PROTECTION AGAINST METAL CORROSION, CAVITATION AND THE FORMATION OF DEPOSITS

Coolelf Si-OAT -37°C protects against all forms of corrosion, overheating and freezing. Protects aluminium water pumps against corrosion, erosion and cavitation, prevents the formation of deposits and leaves surfaces clean.

# Coolelf Plus -37°C

READY-TO-USE COOLANT • HYBRID



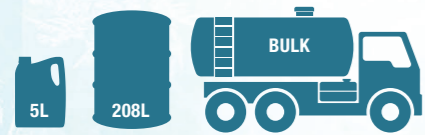
ANTI-FREEZING



ANTI-BOILING



ANTI-CORROSION



Coolelf Plus -37°C is a “long-life” coolant based on monoethylene glycol and inorganic inhibitors (silicates), a long proven coolant and heat transfer technology. It contains also an organic inhibitor, it is a semi-organic technology.

Coolelf Plus -37°C can be used in all cooling systems of combustion engines in cars, vans, trucks, buses, constructing machines and agricultural tractors.

Coolelf Plus -37°C is the semi-organic product in our range of coolants.



## SPECIFICATIONS

Coolelf Plus -37°C meets the international specifications for antifreezes:

- AFNOR NFR 15-601
- ASTM D3306
- ASTM D4656
- ASTM D4985
- BS 6580

The antifreeze used in Coolelf Plus -37°C is officially approved by the following manufacturers:

- VW-TL-774 C (G11)
- AUDI-TL-774 C (G11)
- SEAT-TL-774 C (G11)
- SKODA-TL-774 C (G11)
- BMW GS 94000
- PORSCHE-TL-774 C (G11)
- FIAT CHRYSLER
- MS-7170
- GM-OPEL GME L1301
- DEUTZ DQC CA-14

Coolelf Plus -37°C meets the requirements of:

- MB 326.0
- FIAT-LANCIA 9.55523
- LADA TTM
- VAZ 1.97.717-97
- CUMMINS 85T8-2
- IVECO STANDARD 18-1830
- MAN 324 TYPE NF
- MTU MTL 5048
- PERKINS
- VOLVO 128 6083/002

## CUSTOMER BENEFITS

### LONG-TERM PROTECTION AGAINST CORROSION OF METALS AND ALL TYPE OF MATERIALS

Coolelf Plus -37°C offers an adequate solution against corrosion problems of all the materials in the cooling system.

The additives in Coolelf Plus -37°C give the coolant:

- A reserve of alkalinity (to neutralise the acids resulting from the combustion gases),
- Resistance to foaming,
- Compatibility with hard water (maximum 40°F)

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

### EXCELLENT QUALITY RATIO

# Coolelf MDX -26°C

READY-TO-USE COOLANT • HYBRID



ANTI-FREEZING



ANTI-BOILING



ANTI-CORROSION



Coolelf MDX -26°C is a "long-life" coolant fluid based upon monoethylene glycol containing no amines, nitrites or phosphates.

Coolelf MDX -26°C coolant is recommended for all the cooling circuits in internal combustion engines, particularly MTU, MB and MAN systems.

Coolelf MDX -26°C figures as a "speciality" in our range of liquid coolants.



## SPECIFICATIONS

Coolelf MDX -26°C meets the international specifications for antifreezes:

- AFNOR NFR 15-601
- BS 6580

The antifreeze used in Coolelf MDX -26°C is officially approved by the following manufacturers:

- |                           |                                  |                                   |
|---------------------------|----------------------------------|-----------------------------------|
| • VW-TL-774 C (G11)       | • MB 326.0                       | • STEYR-DAIMLER PUCH N 05045      |
| • AUDI-TL-774 C (G11)     | • MTU - MTL 5048                 | • VAN HOOL                        |
| • SEAT-TL-774 C (G11)     | • MAN 324 TYPE NF                | • VOLVO CONSTRUCTION 128 6083/002 |
| • SKODA-TL-774 C (G11)    | • CATERPILLAR MWM 0199-99-2091   | • VOLVO TRUCKS 128 6083/002       |
| • PORSCHE-TL-774 C (G11)  | • OPEL-GM GMW 3420               | • TESLA (>2013)                   |
| • BMW LC-87               | • VAUXHALL GM 6277M (+B040 1065) | • DEUTZ DQC CA-14                 |
| • VOLVO CARS 128 6083/002 |                                  |                                   |

## CUSTOMER BENEFITS

### PROTECTION AGAINST CORROSION OF METALS, ESPECIALLY ALUMINIUM

Coolelf MDX -26°C provides an effective solution to the problems of corrosion affecting all the materials used in cooling circuits.

Coolelf MDX -26°C performs well in the corrosion tests required by the specifications: hot plate corrosion and glassware corrosion.

Coolelf MDX -26°C gives excellent protection against cavitation that can perforate liners and cause water pump problems.

### HOMOLOGATION PROFILE COMPATIBLE WITH MTU MATERIALS

The additives in Coolelf MDX -26°C give the coolant fluid:

- |  |  |
|--|--|
| • A reserve of alkalinity (to neutralise the acids resulting from the combustion gases), | • Resistance to foaming,                       |
|  | • Compatibility with hard water (maximum 40°F) |

Coolelf MDX -26°C is inert to elastomeric seals and paints.



# Coolelf MDX -37°C

READY-TO-USE COOLANT • HYBRID



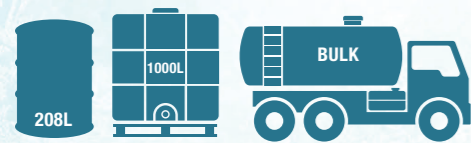
ANTI-FREEZING



ANTI-BOILING



ANTI-CORROSION



Coolelf MDX -37°C is a “long-life” coolant fluid based upon monoethylene glycol containing no amines, nitrites or phosphates.

Coolelf MDX -37°C coolant is recommended for all the cooling circuits in internal combustion engines, particularly MTU, MB and MAN systems.

Coolelf MDX -37°C figures as a “speciality” in our range of liquid coolants.



## SPECIFICATIONS

Coolelf MDX -37°C meets the **international specifications** for antifreezes as well those of major manufacturers:

- AFNOR NFR 15-601
- BS 6580

The antifreeze used in Coolelf MDX -37°C is **officially approved** by the following manufacturers:

- |                          |                                  |                              |
|--------------------------|----------------------------------|------------------------------|
| • VW-TL-774 C (G11)      | • MTU - MTL 5048                 | • STEYR-DAIMLER PUCH N 05045 |
| • AUDI-TL-774 C (G11)    | • MAN 324 TYPE NF                | • VAN HOOL                   |
| • SEAT-TL-774 C (G11)    | • CATERPILLAR MWM 0199-99-2091   | • TESLA (>2013)              |
| • SKODA-TL-774 C (G11)   | • OPEL-GM GMW 3420               | • DEUTZ DQC CA-14            |
| • PORSCHE-TL-774 C (G11) | • VAUXHALL GM 6277M (+B040 1065) |                              |
| • BMW LC-87              |                                  |                              |
| • MB 326.0               |                                  |                              |

Coolelf MDX -37°C has been **acknowledge as satisfactory** for use in their engines by the following manufacturers:

- |                              |                                      |                                |
|------------------------------|--------------------------------------|--------------------------------|
| • VOLVO CARS<br>128 6083/002 | • VOLVO CONSTRUCTION<br>128 6083/002 | • VOLVO TRUCKS<br>128 6083/002 |
|------------------------------|--------------------------------------|--------------------------------|

## CUSTOMER BENEFITS

### PROTECTION AGAINST CORROSION OF METALS, ESPECIALLY ALUMINIUM

Coolelf MDX -37°C provides an effective solution to the problems of corrosion affecting all the materials used in cooling circuits.

Coolelf MDX -37°C performs well in the corrosion tests required by the specifications: hot plate corrosion and glassware corrosion.

Coolelf MDX -37°C gives excellent protection against cavitation that can perforate liners and cause water pump problems.

### HOMOLOGATION PROFILE COMPATIBLE WITH MTU MATERIALS

The additives in Coolelf MDX -37°C give the coolant fluid:

- |  |   |
|--|---|
| • A reserve of alkalinity (to neutralise the acids resulting from the combustion gases), | • A resistance to foaming (mainly instability of the foam that might form), |
|  | • A compatibility with hard water (maximum 40°F)                            |

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

# ANAC COOLANT

Anac Coolant is an in-depth diagnostic system for the follow-up of cooling liquids and cooling systems, which allows fleet managers to reduce the maintenance costs of their machine park.

## WHAT DOES IT MEASURE?

Anac Coolant determines the physical chemical properties of the cooling liquid and its protection against corrosion and temperature.

- **Appearance, pH, Reserve Alkalinity, Density**
- **Protection against temperature:** ratio antifreeze/water, freezing and boiling temperature (% , °C)
- **Corrosion of the cooling system:** Spectrometric determination (ICP) of elements: Fe, Pb, Cu, Sn, Cr, Al, Ni, Zn, Ba (ppm)
- **Protection against corrosion:** Determination of the concentration of corrosion inhibitors, organic and mineral. (ppm)
- **Water pollutions:** determination of Sulphates and chlorides concentrations, water hardness, Mg, Ca (ppm)
- **Oxidation of glycol present in the cooling liquid:** Glycolates (ppm)

## Coolant Visio

### Coolant + Pollution by sediments:

Detection and qualification of the pollution by solid particles (of medium and big dimension >5µ) by filtration and microscopic observation.



## RECOMMENDED IN THE FOLLOWING CASES

- Detailed follow-up of the coolant behavior and the condition of the system the cooling liquid is operating in.
- Punctual analysis and diagnosis in certain cases (breakdown, complaint, expertise...)
- Compliance check of the properties of the cooling liquid in use with the new cooling liquid.

## RESULTS AND DIAGNOSIS

- The diagnosis report is in 95% of cases available within 1 week after reception in the lab.
- The results can be dispatched by e-mail or can be viewed on a secured portal on the Internet.
- A personalized interpretation of the diagnoses.
- Specific analysis routine for mineral and organic liquids.
- A website allowing a user-friendly management of the analyses data.
- Results available by e-mail or on a secured internet portal.
- More than 20 years of experience in coolant analyses.

The diagnosis and comments are generated by the Anac system which is based on:

Sampling date	11/03/2020	22/03/2020	02/04/2020	23/04/2020	23/04/2020
Sample Number	CO002420	CO002421	CO002503	CO002502	CO002501
Working time	19:02 H	09:54 H	09:54 H	11:14 H	10:02 H
Working time fluid	19:02 H	10:55 H	09:53 H	09:53 H	09:53 H



**TotalEnergies**

**TotalEnergies Lubrifiants**  
562 avenue du Parc de L'Île  
92000 Nanterre - France  
Tél.: +33 (0)1 41 35 40 00

<https://lubricants.totalenergies.com/>