



ANTI - FREEZING



ANTI - BOILING



ANTI - CORROSION



# Coolelf Neotech -37°C

Ready-to-use coolant • O.A.T.

## DESCRIPTION

**Coolelf Neotech -37°C** is a "very-long-life" premium engine coolant based on monoethylene glycol and Organic Additive Technology (OAT) that provides year-round frost and excellent corrosion, freeze and boil protection. The coolant can withstand high temperatures thanks to the increased oxidation stability and compensates the negative effects of potential flux contamination.

**Coolelf Neotech -37°C** is designed to cope with the most extreme engine conditions in both passenger cars and heavy-duty applications.

**Coolelf Neotech -37°C** contains no 2-EHA, nitrite and borate. It is also compliant with EU CO2 emission performance standards.

## SPECIFICATIONS 1/2

The antifreeze used in **Coolelf Neotech -37°C** meets the **international specifications** for antifreezes:

- ASTM D3306-20
- ASTM D6210-17
- GB 27943.1-2022
- UNE 26 361 88/1
- JIS K2234 2018

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

- VOITH
- JAGUAR-LAND ROVER STJLR.03.5212

The antifreeze used in **Coolelf Neotech -37°C** **meets the requirements** of:

- VOLVO VCS-2
- RENAULT TRUCKS RTCS-2
- CATERPILLAR GCM34
- PERKINS
- CLAAS
- UD TRUCKS
- JOHN DEERE POWER SYSTEMS
- CASE NEW HOLLAND MAT 3624
- DETROIT DFS93K217
- DEUTZ DQC CB-14
- TATA

>> continued



# TotalEnergies

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

Coolelf Neotech -37°C | Sheet updated: 09/23

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## SPECIFICATIONS 2/2

Coolelf Neotech -37°C is **recommended for use** for below manufacturers:

- DAF
- LEYLAND TRUCKS
- ALSTOM
- ASTON MARTIN
- CASE NEW HOLLAND MAT 3724
- EVOBUS
- FREIGHTLINER
- MB 325.3
- MB 326.3
- FORD WSS-M97B44-D
- OPEL / VAUXHALL / CHEVROLET GMW 3420
- GREAT WALL MOTORS
- HITACHI
- THERMO KING
- ISUZU
- KOBELCO
- KOMATSU 07.892 (2017)
- BEHR
- MITSUBISHI MHI
- ABARTH
- ALFA ROMEO
- CHRYSLER
- DODGE
- FIAT 9,55523
- JEEP
- MASERATI
- SANTANA MOTORS
- VESTAS
- VW TL-774 D/F
- SKODA 61-0-0257
- MAN 324 TYP SNF
- YANMAR
- ZF

## CUSTOMER BENEFITS

**VERY LONG-TERM  
PROTECTION  
AGAINST METALS  
CORROSION**

**MAXIMUM HEAT  
TRANSFER**

**ENVIRONMENT**

Organic technology ensures a long-term action to offer maximum protection against any type of corrosion, erosion and cavitation, even at high temperatures.

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

- Chemical neutrality (pH7.9- 9.0)
- A reserve of alkalinity to neutralize the acids resulting from the combustion gases
- Resistance to foaming
- Excellent hard water stability avoiding the formation of insoluble deposits

Prevents the formation of gels or deposits in the cooling system.

Carefully selected additives to reduce environmental impact

## 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.



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## CHARACTERISTICS

COLOUR	-	PINK TO ORANGE
Density at 20°C	ASTMD5931	1.073
PH	ASTMD1287	8.5
Alkalinity reserve (PH 5.5)	ASTMD1121	2.8 ml HCl 0.1N
Temperature at which the first ice crystals occur	ASTMD1177	-37°C
Boiling Temperature	ASTMD1120	111°C

The typical characteristics mentioned represent mean values

## APPLICATION

### PROTECTION ALL YEAR ROUND

**Coolelf Neotech -37°C** ensures long-lasting protection thanks to the OAT backbone with virtually non-depleting organic corrosion inhibitors, until -37°C.

### READY TO USE PRODUCT

**Coolelf Neotech -37°C** is ready for use, as a mix with demineralised water. Suitable for use in combustion engines and Battery Electric Vehicles in automotive and heavy-duty applications if there is no requirement on electrical conductivity.

### MULTI-MATERIAL COMPATIBILITY

**Coolelf Neotech -37°C** can be used for cooling systems made of iron, steel, aluminium as well as copper alloy.

### 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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## PERFORMANCES

### ASTM D1384: GLASSWARE CORROSION TEST (336H/88°C/33%VOL)

	WEIGHT LOSS (MG/COUPON) <sup>1</sup>					
	Copper	Solder	Brass	Steel	Cast Iron	Aluminium
ASTM D3306 LIMITS	10	30	10	10	10	30
Coolelf Neotech	1	3	0	1	0	5

<sup>1</sup> Weight loss AFTER chemical cleaning according to ASTM procedure. Weight gain is indicated by a (-) sign.

### ASTM D4340: ALUMINIUM HEAT REJECTION TEST (25%VOL)

	WEIGHT LOSS (MG/CM²/WEEK) <sup>1</sup>
ASTM D3306 LIMITS	1.0
Coolelf Neotech	0.44

<sup>1</sup> Weight loss AFTER chemical cleaning according to ASTM procedure. Weight gain is indicated by a (-) sign.

### ASTM D2570: SIMULATED SERVICE CORROSION TEST

	WEIGHT LOSS (MG/COUPON) <sup>1</sup>					
	Copper	Solder	Brass	Steel	Cast Iron	Aluminium
ASTM D3306 LIMITS	20	60	20	20	20	60
Coolelf Neotech	7	6	8	2	0	2

<sup>1</sup> Weight loss AFTER chemical cleaning according to ASTM procedure. Weight gain is indicated by a (-) sign.

### ASTM D2809: WATER PUMP CAVITATION TEST

	PUMP RATING*
ASTM D3306 Requirement	> / = 8
Coolelf Neotech	9

\*ASTM D3306 requires a pump rating of 8 or higher on a scale of 10.

Coolelf Neotech 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

### ASTM D7820: OXIDATION STABILITY (air charged to 620 kPa gauge pressure, 150°C)

	GLYCOL OXIDATION PRODUCTS AFTER TESTING (ppm)			
	Glycolate	Formate	Oxalate	Total
REFERENCE COOLANT	4777	683	70	5530
Coolelf Neotech	2835	595	18	3448

### HARD WATER STABILITY

	AMOUNT OF DEPOSIT (v/v%)
Coolelf Neotech	<0.05

### DYNAMIC HEAT TRANSFER TEST (FVV-Heft R530/2005)

	WEIGHT LOSS (MG/COUPON) <sup>1</sup>			
	Cast Iron (EN-GJL-250)		Aluminium (EN AC-AISI6Cu4)	
	Heated coupon	Non-heated coupon	Heated coupon	Non-heated coupon
Coolelf Neotech (40 v% <sup>2</sup> )	-28	-23	-19	-22
Coolelf Neotech (40 v% <sup>3</sup> )	1	-17	-14	-3

<sup>1</sup> Weight loss AFTER chemical cleaning according to ASTM procedure. Weight gain is indicated by a (-) sign.

<sup>2</sup> 40% coolant dilution in deionised water, 105°C operating temperature

<sup>3</sup> 40% coolant dilution in 10° dGH FVV water, 115°C operating temperature

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