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
- CLAAS
- DEUTZ DQC CB-14

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

- VOLVO VCS-2
- RENAULT TRUCKS RTCS-2
- CATERPILLAR GCM34
- PERKINS
- KUBOTA
- UD TRUCKS
- JOHN DEERE POWER SYSTEMS
- CASE NEW HOLLAND MAT 3624
- DETROIT DFS93K217
- DEUTZ DQC CB-14
- TATA
- IVECO 18-1830
- INNIO JENBACHER TA1000-0200

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TotalEnergies

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SPECIFICATIONS 2/2

Coolelf Neotech -37°C is recommended for use for:

- CASE NEW HOLLAND MAT 3724
- DTFR 29D110 (former MB 326.3)
- FORD WSS-M97B44-D
- OPEL / VAUXHALL / CHEVROLET GMW 3420 / GMW 18270
- KOMATSU 07.892 (2017)
- FIAT 9,55523
- VW TL-774 D/F
- SKODA 61-0-0257
- MAN 324 TYP SNF
- CUMMINS CES 14439
- CUMMINS CES 14603

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 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.

ENVIRONMENT

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)[1]					
	Copper	Solder	Brass	Steel	Cast Iron	Aluminium
ASTM D3306 LIMITS	10	30	10	10	10	30
Coolelf Neotech	1	3	0	1	0	5

1 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)[1]
ASTM D3306 LIMITS	1.0
Coolelf Neotech	0.44

1 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)[1]					
	Copper	Solder	Brass	Steel	Cast Iron	Aluminium
ASTM D3306 LIMITS	20	60	20	20	20	60
Coolelf Neotech	7	6	8	2	0	2

1 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 dilutons 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)[1]			
	Cast Iron (EN-GJL-250)		Aluminium (EN AC-AlSi6Cu4)	
	Heated coupon	Non-heated coupon	Heated coupon	Non-heated coupon
Coolelf Neotech (40 v%[2])	-28	-23	-19	-22
Coolelf Neotech (40 v%[3])	1	-17	-14	-3

1 Weight loss AFTER chemical cleaning according to ASTM procedure. Weight gain is indicated by a (-) sign.
2 40% coolant dilution in deionised water, 105°C operating temperature
3 40% coolant dilution in 10° dGH FVV water, 115°C operating temperature

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