

Coolelf Cartech -37°C

Ready-to-use coolant • P - O.A.T.



DESCRIPTION

Coolelf Cartech -37°C is a “very-long-life” premium glycol-based engine coolant containing cutting-edge phosphate inhibitor technology backed by a robust organic backbone (P-OAT - Phosphated Organic Additive Technology). The high temperature stability combined with flux passivation properties makes this coolant an excellent and future proof choice for today's and tomorrow's engine cooling systems.

Coolelf Cartech -37°C provides year-round frost and excellent corrosion, freeze and boil protection in light vehicles and heavy-duty applications.

Coolelf Cartech -37°C is exempt from potentially harmful additives such as nitrites, borates amines, leading to a safer environment. Coolelf Cartech -37°C is also free of silicates, which excludes any possible issues caused by instable silicate gel or silicate dropout.

SPECIFICATIONS

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

- ASTM D3306-20
- ASTM D6210-17
- JIS K2234-2018
- KS M 2142:2014
- GB 29743-2013
- UNE 26-361-88/1
- GB 27943.1-2022

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

- RNES-B-00014 v2.1*
- RN 41-01-001 -V*
- Renault RTCS-E

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

- PSA B 71 1111
- Stellantis MS.50203
- WSS-M97B57-A1
- Fiat 9,55523
- Opel
- Vauxhall
- Alpine

The antifreeze used in **Coolelf Cartech -37°C** is **recommended** by the following manufacturers:

- Toyota
- Honda
- Hyundai
- Suzuki
- Mazda
- Kia
- Subaru
- Kubota

*Type E and retro-compatible with Type D. Except for B4A and B4D engines.



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

Coolelf Cartech -37°C | Sheet updated: 09/2024

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	-	BLUE - GREEN
Density at 20°C	ASTMD5931	1.070
pH	ASTMD1287	8.0
Alkalinity reserve (to inflection point)	ASTMD1121	13.5 ml HCl 0.1N
Temperature at which the first ice crystals occur	ASTMD1177	-37°C
Boiling Temperature	ASTMD1120	113°C

The typical characteristics mentioned represent mean values

APPLICATION

PROTECTION ALL YEAR ROUND

Coolelf Cartech -37°C ensures long-lasting protection thanks to the P-OAT backbone with virtually non-depleting organic corrosion inhibitors.

READY TO USE PRODUCT

Coolelf Cartech -37°C is ready for use, as a mix with demineralised water. Suitable for use in combustion engines in passenger car and heavy-duty applications.

MULTI-MATERIAL COMPATIBILITY

Coolelf Cartech -37°C may be used with confidence in engines manufactured from cast iron, aluminium or combinations of the two metals, and in cooling systems made of aluminium or copper alloys.

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 Cartech -37°C** give the coolant:

- Chemical neutrality (pH 7.5 – 8.5)
- A reserve of alkalinity to neutralize the acids resulting from the combustion gases
- Resistance to foaming
- Excellent hard water stability with a unique matrix of hard water stabilisers & sequestrants.

COST SAVING RELIABILITY

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

ENVIRONMENT

Maintenance free coolant with depletion-free and stable inhibitors.

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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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 Cartech	1	1	0	1	1	2

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 Cartech	-0.1

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

DYNAMIC CORROSION TEST CEC-C23-T-99 (Cast Iron 1400W / Aluminium 1000W, 72 Hrs)

	WEIGHT CHANGE in MG/COUPON		
	Cast Iron	Aluminium	
		Before chemical treatment	After chemical treatment
Coolelf Cartech (20% vol.)	2	-3	-11

JIS K2234-2018 Circulating Corrosion Properties (88°C/1000 Hrs)

	WEIGHT CHANGE in MG/CM²					
	Brass	Copper	Solder	Steel	Cast Iron	Aluminium
JIS K2234-2018	±0.30	±0.30	±0.60	±0.30	±0.30	±0.60
Coolelf Cartech (30% vol.)	0.04	0.02	-0.16	-0.09	-0.11	-0.04

pH	JIS K2234-2018	Coolelf Cartech
After test	6.5 to 11	8.1
Change	+/- 1.0	0.1

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



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