

CoolElf SI-OAT

Ready-to-use coolant • SI-OAT

DESCRIPTION

CoolElf SI-OAT is a “very-long-life” coolant made of monoethylene glycol.

CoolElf SI-OAT has fast, effective protective properties. It provides a high level of protection against damage caused by freezing, cavitation, corrosion and overheating.

CoolElf SI-OAT coolant is especially recommended for certain ICEs both for light vehicles (MB and VW group Euro 6 engines), heavy vehicles (MB, MAN, Scania and Cummins Euro 6 engines), public works machinery (Liebherr Euro 6 engines) and agricultural tractors (MTU Claas engines).

SPECIFICATIONS

CoolElf SI-OAT meets the international standards on coolants:

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

CoolElf SI-OAT is approved by the following manufacturers:

- VW / AUDI / SEAT / SKODA / LAMBORGHINI / BENTLEY / PORSCHE / BUGATTI : VW TL 774-G
- DAIMLER / MERCEDES-BENZ : MB 326.6 DTFR 29D120 (former MB 326.5)
- MAN 324 Type SI-OAT



ANTI-FREEZING



ANTI-BOILING



ANTI-CORROSION



TotalEnergies

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

CoolElf SI-OAT | Sheet updated: 01/24

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

Appearance		VISUAL	Clear liquid
Colour		VISUAL	Pink
Density at 20°C	KG/L	ASTM D1122	1.075
Refractive Index at 20°C		ASTM D1218	1.3871
Reserve Alkalinity	mL HCl 0.1N	ASTM D1121	5
pH at 20°C		ASTM D1287	8.3
Freezing Point	°C	ASTM D1177	-37°C

Typical values given for information purposes.



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APPLICATION

MIXING

We strongly advise against mixing Coolelf SI-OAT with any other coolant technologies. If the manufacturer permits SI-OAT technology, any changes in technology must take place further to rinsing the whole cooling system.

READY-TO-USE PRODUCT

Coolelf SI-OAT is a ready-to-use product, that is pre-mixed with demineralised water.

YEAR-ROUND PROTECTION

It guarantees optimum protection against freezing, to -37°.

LONGER SERVICE LIFE

Recommended change interval:

- **Professional: from 3 to 5 years** depending on the manufacturer's recommendations (refer to the vehicle's maintenance manual)
- **Light vehicles: up to 250,000 km**, depending on the manufacturer's recommendations (refer to the vehicle's maintenance manual).

RETRO-APPLICABILITY

Coolelf SI-OAT has been specifically designed to meet the most demanding mechanics of certain EURO 6 engines in various business areas, for both professionals and individuals.

Unless there are indications to the contrary from the manufacturer (see vehicle maintenance manual), the product is retro-applicable for generations prior to Euro 6, taking the necessary precautions, i.e. mandatory rinsing before the transition to Si-OAT technology.

Coolelf SI-OAT is MAN 324 (Si-OAT type) approved, and can be used on vehicles requiring MAN 324 type NF and type SNF approvals.

Coolelf SI-OAT is VW TL 774-G approved, and can be used on vehicles requiring VW TL 774-C, 774-D, 774-F, and 774-J approvals.

Coolelf SI-OAT is MB 326.6 and DTFR 29D120 approved and can be used on vehicles requiring MB 326.0 and MB 326.3 approvals.

Coolelf SI-OAT is not recommended for OM 300 and 400 engines on MB Trucks (non-exhaustive list).

HSE

Any antifreeze made with monoethylene glycol is considered to be special industrial waste, and, to respect the environment, must be disposed of in certified centres.



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CUSTOMER BENEFITS

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

Coolelf SI-OAT 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.

PERFORMANCES

GLASSWARE CORROSION TEST

	WEIGHT LOSS(mg/COUPON)					
	Copper	Solder	Brass	Steel	Cast Iron	Aluminium
Coolelf SI-OAT	0.1	0.1	-0.4	-0.1	-0.1	-0.4
VW TL 774-G LIMIT	3	3	3	3	3	2

DIN 51 360-2

	CORROSION INDEX	
	20% vol % dilution	40% vol % dilution
Coolelf SI-OAT	4	2
VW TL 774-G LIMIT	4	2

FOAMING CHARACTERISTICS (33% VOL DILUTION)

	Volume (ml)	Break time (s)
	Coolelf SI-OAT	5
VW TL 774-G LIMIT	20	5
ASTM D1881 (PART OF ASTM D3306)	Max 150 ml	Max 5 sec

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



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