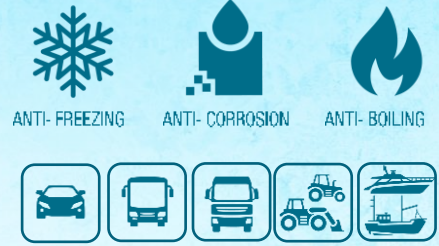


Glacelf Eco BS

Concentrate to dilute • O.A.T.



DESCRIPTION

Glacelf Eco BS is an economical OAT concentrate, providing frost and corrosion protection.

Glacelf Eco BS, antifreeze, when mixed with an appropriate quantity of water, becomes a coolant fluid adapted to internal combustion engines in cars and vans, trucks, construction machinery and agricultural tractors (except the EURO 6 engines).

RECOMMENDATION: drain the existing coolant and flush the cooling system with demineralized water before filling with **Glacelf Eco BS** based coolant.

SPECIFICATIONS

Glacelf Eco BS meets the **industry standards** such as **British Standard BS 6580:1992 and BS 6580:2010** and the **French Standard NF R 15-601**. This makes **Glacelf Eco BS** a cost-effective solution for multiple engine coolant system applications.

CHARACTERISTICS

Appearance	Visual	Clear liquid
Colour	Visual	Light Blue
Density @ 20°C	ASTM D5931	1.111 kg/L
pH @ 20°C, 33% vol.	ASTM D1287	8.5
Reserve Alkalinity	ASTM D1121	3.05 mL HCl 0.1N
Freezing Point, 50% vol.	ASTM D1177	-33°C

The typical characteristics mentioned represent mean values.

HSE

All antifreezes and coolants based upon monoethylene glycol are regarded as special industrial wastes and must be disposed of in approved centers for environmental reasons.



TotalEnergies

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

Glacelf Eco BS | Sheet updated: 01/2024

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.

APPLICATION

DILUTION IN DEMINERALIZED WATER

Glacelf Eco BS needs to be diluted in demineralized water to form a permanent coolant that can be used throughout the year. To obtain a coolant perfectly mixed, it is recommended to mix mechanically the antifreeze with the water. Protection against freezing depends upon the proportions of **Glacelf Eco BS** in the water.

MINIMUM 33%

% by vol. of Glacelf Eco BS	33	40	50
Freezing Point (Temperature at which crystals first appear, °C)	-19	-23	-33
Boiling Point °C	105	106	109

ENVIRONMENT

Glacelf Eco BS is entirely safe to use in all cast iron or aluminum engines and in cooling systems containing aluminum or copper alloy radiators.

CUSTOMER BENEFITS

PROTECTION AGAINST METAL CORROSION

Glacelf Eco BS offers the following benefits to the user:

- Corrosion protection, also for non-ferrous 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 optimize the heat transfer.

PERFORMANCES

ASTM D1384: GLASSWARE CORROSION TEST

	WEIGHT LOSS (MG/COUPON)					
	Brass	Copper	Solder	Steel	Cast Iron	Aluminium
NF R-15-601 LIMITS	5	5	-	2.5	4	10
BS 6580-2010 LIMITS	10	10	30	10	10	15
Glacelf Eco BS	0.5	0.5	4.9	0.7	0.3	3.0

ASTM D4340: ALUMINIUM HEAT TRANSFER TEST

	WEIGHT LOSS(MG/CM ² /WEEK)
NF R-15-601 LIMITS	1.0
BS 6580-2010 LIMITS	1.0
Glacelf Eco BS	0.3

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



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