

# 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	<b>0.5</b>	<b>0.5</b>	<b>4.9</b>	<b>0.7</b>	<b>0.3</b>	<b>3.0</b>

### ASTM D4340: ALUMINIUM HEAT TRANSFER TEST

	WEIGHT LOSS(MG/CM²/WEEK)
NF R-15-601 LIMITS	1.0
BS 6580-2010 LIMITS	1.0
Glacelf Eco BS	<b>0.3</b>

*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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