



TOTAL COOLELF ECO BS

Ready-to-use coolant • O.A.T.



DESCRIPTION

TOTAL COOLELF ECO BS, is an economical OAT concentrate providing frost and corrosion protection.

TOTAL COOLELF ECO BS, is a cooling liquid adapted to cooling systems of combustion engines of 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 demineralised water before filling with TOTAL COOLELF ECO BS based coolant.

SPECIFICATIONS

TOTAL COOLELF ECO BS meets the *international specifications* for antifreezes:

- BS 6580

TOTAL COOLELF ECO BS conforms to British Standard BS 6580:1992 and BS 6580:2010 as well as those of major manufacturers.

CHARACTERISTICS

APPEARANCE	VISUAL	CLEAR LIQUID
COLOUR	VISUAL	LIGHT BLUE
DENSITY AT 20°C	ASTM D1122	1.065
RA	ASTM D1121	1.0
PH AT 20°C	ASTM D1287	8.5
FREEZING POINT	ASTM D1177	-22

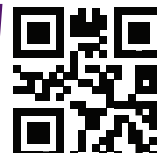
The typical characteristics mentioned represent mean values

TOTAL LUBRIFIANTS

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

TOTAL COOLELF ECO BS

Sheet updated: 01/16



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.



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APPLICATIONS

- PROTECTION ALL YEAR ROUND** TOTAL COOLELF ECO BS ensures maximum protection against freezing, until -22°C.
- READY TO USE PRODUCT** TOTAL COOLELF ECO BS is ready for use, as a mix with demineralised water.
- LIFETIME** Light vehicles: up to 250,000 km depending on the manufacturer's recommendations (refer to the vehicle's maintenance manual).

CUSTOMER BENEFITS

- PROTECTION AGAINST METAL CORROSION** TOTAL COOLELF ECO BS offers the following benefits to the user:
 - corrosion protection, also for nonferrous metals
 - frost protection
- EXCELLENT PERFORMANCE**
 - boiling protection
 - miscibility
 - seal compatibility
 - hard water stability
 - low cost
- NO DEPOSITS**

The organic additives prevent deposit formation, keep the surface clean and optimise the heat transfer.

PERFORMANCES

- PROTECTION AGAINST CORROSION HOT IMMERSION GLASSWARE CORROSION TEST -BS 5117**

	WEIGHT LOSS (MG/COUPON)					
	Brass	Copper	Solder	Steel	Cast iron	Aluminium
ASTM D3306 LIMITS	10	10	30	10	10	30
BS 6580 LIMITS	10	10	15	10	10	15
TOTAL COOLELF ECO BS	0.2	0.3	1.2	0.3	0.3	5.0

- ALUMINUM HEAT TRANSFER TEST- ASTM D4340**

	WEIGHT LOSS (MG/CM ² /WEEK)	
ASTM D3306 LIMITS	1.0	
BS 6580 LIMITS	1.0	
BS 6580 LIMITS	- 0.2	

STORAGE GUIDELINES The product should be stored indoors at ambient temperatures and periods of exposure to temperatures above 35°C should be minimized. It is not advisable to expose the coolant to direct sunlight and humidity. Use of galvanized steel is not recommended for the pipes or the components of the cooling system. This leads to deposit formation and there by affect the heat transfer properties of the coolant. Please refer to the Material Safety data sheet for further safety information.

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