

ANTIFREEZE

Description

Antifreeze formulated from ethylene glycol and anticorrosive and anti-foam additives. It is free of amines, nitrites and phosphates. Recommended for all types of cooling circuits in diesel and petrol engines. Mixed with water in the range 30-50% it provides excellent antifreeze and cooling properties and very good protection from metal surfaces.

Properties

- Excellent protection against corrosion and cavitation, even at low concentrations.
- Mixable with water in any proportion.
- Prevents foam formation.
- Hinders the formation of deposits and sludge in the cooling circuit.
- Great thermal stability.
- It possesses alkaline capacity to neutralize the acid combustion gases which inevitably leak into the cooling circuit.
- Compatible with joints and seals, thus preventing fluid loss risks.
- Can be used in all types of cooling circuits, including industrial ones.
- Not suitable for use in cooling circuits in the food industry.

Quality levels

- ASTM D 3306
- CUNA NC 956-16
- ASTM D 1384
- B.S. 6580:92

Technical specifications

PROPERTIES	UNIT	METHOD	TYPICAL VALUES
Appearance		visual	blue
pH at 50% vol. with water		ASTM D 1287	>7.5
Water content		ASTM D 1123	<3%
Freezing point (50%:50%)	°C	ASTM D 1177	-37 min
Density at 20°C		ASTM D 941	1,13
Flash point	°C	DIN ISO 2592	122 min.
Boiling point	°C	ASTM D 1120	160 min.
Boiling point at 50% vol.	°C	ASTM D 1120	107 min.
Reserve alkalinity at 10% vol. in water		ASTM D 1121	>16mL HCl 0,1 N
Ash content		ASTM D 1119	1,2% medium value
Foaming Tendencies		ASTM D 1881	10 mL/s medium value
Corrosion in glassware		ASTM D 1384 Aluminum, steel, cast iron Copper, brass, Solder	<0,5 medium value <1 medium value 1,6 medium value

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Protection against freezing:

Antifreeze	Water	Freezing point
50%	50%	-37°C
40%	60%	-27°C
30%	70%	-15°C
20%	80%	-9°C
10%	90%	-4°C

Safety Data Sheet is available on request.

Technical Data Sheet revision 1 from January 2008