Carcoolant BS6580

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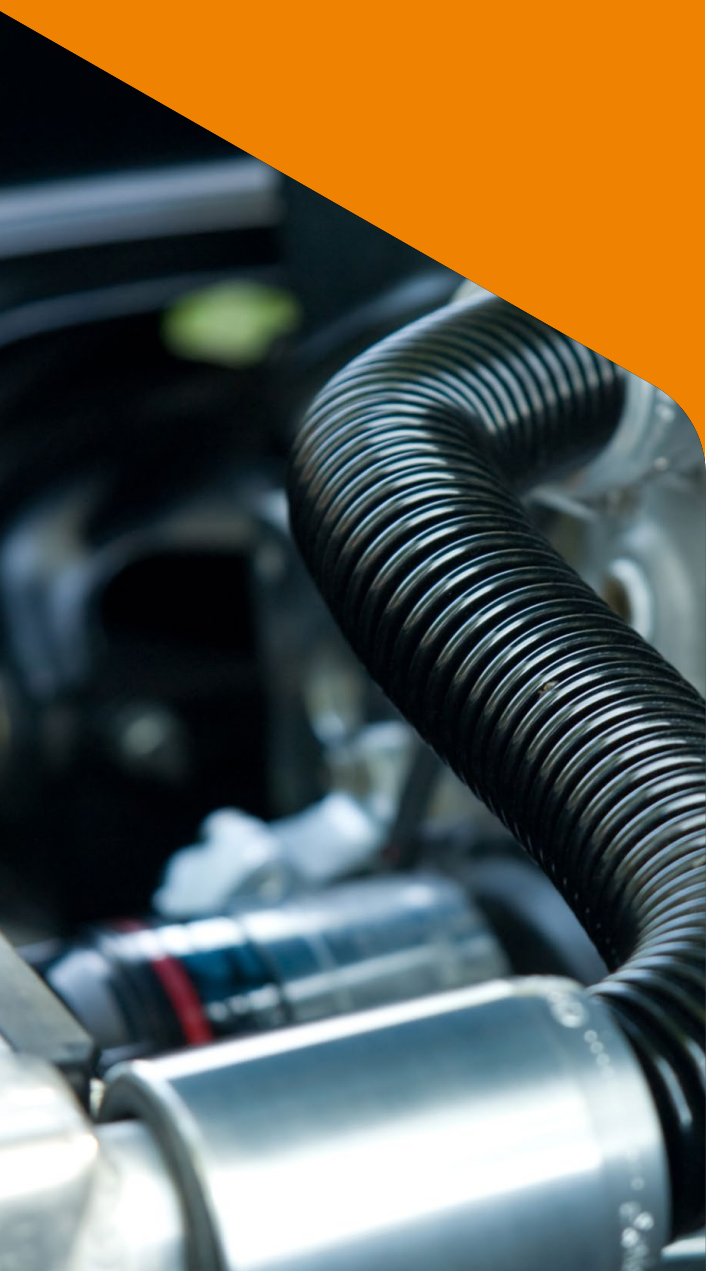


Carcoolant BS6580

Description

Carcoolant BS6580 is a highly cost-efficient OAT (organic additive technology) engine coolant concentrate providing frost and corrosion protection.

In today's combustion engines, the engine and cooling system need to be protected against corrosion and frost damage. Therefore, the engine coolant needs to provide freezing and boiling protection, be compatible with commonly used metals and elastomers while providing efficient heat transfer.

Carcoolant BS6580 combines MEG (Mono Ethylene Glycol) as base fluid with a well balanced fully organic inhibitor package, offering protection to all cooling system components including standard used metals and elastomers.

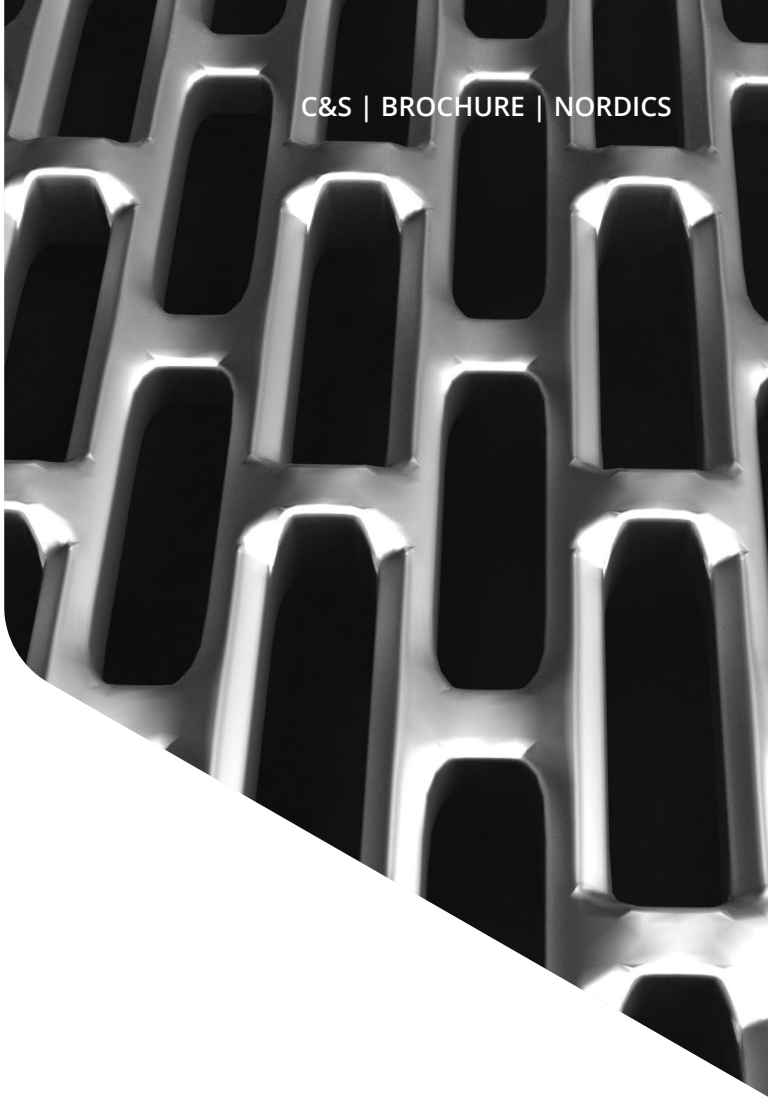
As our **Carcoolant BS6580** inhibitor package is fully organic, it offers excellent heat transfer properties. Exempt from potentially harmful additives such as nitrites, amines and phosphates, the coolant also contributes to a safer environment.
Carcoolant BS6580 is also silicate free, which excludes any possible issues caused by instable silicate gel or silicate drop-out.

Carcoolant BS6580 is an all-round coolant, meeting industry standards such as British Standard BS 6580 and the French Standard NF R 15-601. This makes **Carcoolant BS6580** a cost-effective solution for multiple engine coolant system applications.

Benefits

Carcoolant BS6580 offers the following benefits to the user:

- **Corrosion protection, also for non-ferrous metals**
- **frost protection**
- **boiling protection**
- **good miscibility**
- **seal compatibility**
- **hard water stability**
- **environmentally friendly**
- **cost-efficient**



Application

Carcoolant BS6580 provides year-round frost and corrosion protection. It is recommended to use 50 vol. % of **Carcoolant BS6580** in the coolant solution and a minimum of 33 vol.% to secure corrosion protection properties. A 33 vol.% dilution provides frost protection to -19°C. Concentrations higher than 70 vol. % are not recommended as the maximum frost protection is reached at that level.

Standards

Carcoolant BS6580 conforms to British Standard BS 6580:1992 and BS 6580:2010* and French Standard NF R 15-601.

** For products containing 25% or more 1,2 ethane diol (MEG), supplied as packaged goods intended for retail to the general public, BS 6580:2010 requires the addition of minimum 25 ppm of denatonium benzoate (bitterant), or the package must be fitted with a childproof closure.*

Packaging

Carcoolant BS6580 is available in the following packs & colours:

Bulk	
IBC	
Pail	
Drum	Blue

Compatibility and miscibility

Carcoolant BS6580 is compatible with MEG - based coolants. Exclusive use of **Carcoolant BS6580** is however recommended for optimum corrosion protection and inhibitor stability. To guarantee optimal performance and controlled quality, we also recommend the use of deionised or distilled water to prepare the ready-to-use dilutions.

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Addendum - Technical information

Chemical and physical properties - Carcoolant BS6580				
	CARCOOLANT BS6580	SPECIFICATION LIMITS NF R 15-601	SPECIFICATION LIMITS BS 6580:2010	METHOD
Appearance	clear liquid		clear liquid	visual
Colour	optional		optional	visual
Density 20°c, kg/l	1.110 typ		-	ASTM D5931
Refractive index, 20°c	1.427 typ	report	-	ASTM D1218
Ash content, % w/w	0.4 typ		-	ASTM D1119
Equilibrium boiling point, °c	159 typ	≥ 155	> 150	ASTM D1120
Ph (33 vol %)	8.2 typ	7.0 ≤ pH ≤ 9.5	-	ASTM D1287
Ph (50 vol %)	8.4 typ	7.0 ≤ pH ≤ 9.5	-	ASTM D1287
Freezing point, °c (50 vol %)	-33.0 typ		-33 max	ASTM D1177
Reserve alkalinity (ph 5.5)	3.0 typ	report	-	ASTM D1121
Foaming properties at 88°c		report		
• Foam, ml • Break time, sec	50 typ 5 typ		50 5	ASTM D1881
Hard water stability, ml	<0.05 typ	<0.05 typ	< 0.5	NF R15-602-6 ASTM D7437

ASTM D1384: Standard Test Method for Corrosion Test for Engine Coolants in Glassware

ASTM D1384 is almost identical to NF R15-602-7

	Corrosion protection					
	Weight loss in mg/coupon[1]					
	BRASS	COPPER	SOLDER	STEEL	CAST IRON	ALUMINIUM
NF R 15-601 (max)	5	5	-	2.5	4	10
BS 6580:2010 (max)	10	10	30	10	10	15
Carcoolant BS6580	0.5	0.5	4.9	0.7	0.3	3.0

[1] *weight loss AFTER chemical cleaning acc. to ASTM procedure. weight gain is indicated by a - sign.*

ASTM D4340 aluminium heat transfer test

	weight loss in mg/cm²/week
NF R 15-601 (max)	1.0
BS 6580:2010 (max)	1.0
Carcoolant BS6580	0.3

Storage requirements

The product should be stored above -20°C and preferably at ambient temperatures. Periods of exposure to temperatures above 35°C should be minimized. As with any antifreeze coolant, please avoid the use of galvanized steel for pipes or any other part of the storage/mixing installation. To prevent the degradation of the colour dyes and fading or discoloration in time of the colour present in the coolant, it is strongly advised not to expose the coolant in translucent packages to direct sunlight. This discoloration process can be accelerated if coupled with high ambient temperatures. It is therefore advisable to store coolant filled in translucent packages indoors to preserve the colour.

Toxicity & Safety

For Toxicity and Safety Data we refer to the Safety Data Sheet (SDS). The information and advice given should be observed and due attention needs to be given to the necessary safety precautions for handling chemicals. This product must not be used to protect the inside of drinking water systems against freezing. The transport is not regulated.

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