



# CAFLON BS6580

Ethylene Glycol based Antifreeze NAP Free



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## CAFLON BS6580

- Is an ethylene glycol based coolant concentrate formulated for use in all engines including those constructed from aluminium alloys.
- Provides all year-round frost and corrosion protection. It is recommended to dilute the material 50 vol. % in the final coolant solution. This provides frost protection to -37°C.
- Contains an inhibitor package that is Nitrite, Amine and Phosphate (NAP) free.
- Is supplied [blue](#) in colour and contains a bittering agent.

### Performance, Features & Benefits:

- Offers outstanding protection against corrosion, overheating and frost.
- Low inhibitor depletion rates.
- The exceptional thermal stability eliminates the risks of deposits particularly near the cylinder head, engine block, radiator, water pump and heat exchanger.
- Is Nitrite, Amine, Phosphate (NAP free), borate and silicate free.
- Meets the requirements of; BS 6580

Typical Properties (Not a Specification)		CAFLON BS6580	ASTM D3306
Appearance @ 20°C		Clear blue liquid (*)	Not specified
Relative Density 15.5/15.5°C (60/60°F)		1.120	1.110 – 1.145
Freezing Point (°C) 50 vol % in DI water		-37.0	-36.4°C max
Boiling Point (°C) 50 vol % in DI water		109°C	108°C min
pH, 50 vol % in DI water		8.0	7.5 – 11.0
Reserve Alkalinity @ pH 5.5		3.0 typical	Report
Foaming Properties (ASTM D1881)	Vol (ml)	Pass	150 max
	Break (s)	Pass	5 max

(\*) Can be supplied colourless also

### DILUTION

CAFLON BS6580 must be diluted with water before use (ideally with DI water). It is hard water compatible and can be mixed with tap water (\*) before filling into the cooling system.

(\*) water quality should not exceed the following limits;

- Water Hardness 0 - 20° dH (0 – 3.6mmol/l)
- Chloride content 100 ppm max
- Sulphate content 100 ppm max
- CAFLON BS6580 can also be supplied pre-diluted.



**CORROSION PROTECTION**

**Glassware Corrosion Test – ASTM D 1384**

Glassware corrosion test - ASTM D 1384		
Metal or Alloy	Typical weight loss (mg/coupon)	Max Spec Limit ** (mg/coupon)
Copper	1	10
Solder	1	30
Brass	0	10
Steel	1	10
Cast Iron	1	10
Cast Aluminium	4	30

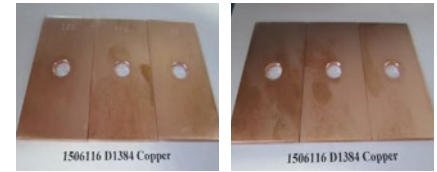
**Corrosion of Aluminium under heat rejecting conditions - ASTM D 4340**

ASTM D 4340 <sup>1</sup> Test Results			
Run #1 Weight Loss (mg/cm <sup>2</sup> /wk)	Run #2 Weight Loss (mg/cm <sup>2</sup> /wk)	Average Weight Loss (mg/cm <sup>2</sup> /wk)	ASTM Limit** (mg/cm <sup>2</sup> /wk)
-0.08	-0.02	-0.05	1.00

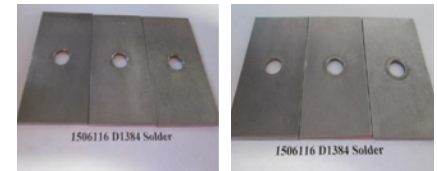
\*\* Limits published in ASTM D3306 Standard Specification for Gycol Base Engine Coolant for Automobile and Light Duty Service. These performance limits are also required for heavy-duty coolants and recycled coolants. A negative number indicates a net weight gain after correcting for the cleaning bank. (refer to the published method information on the calculations).



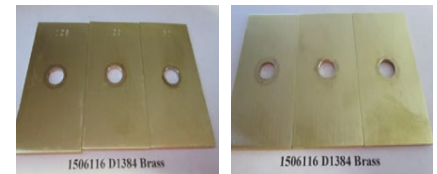
Copper



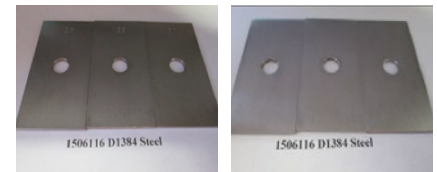
Solder



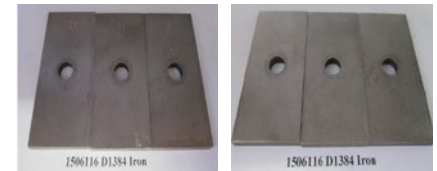
Brass



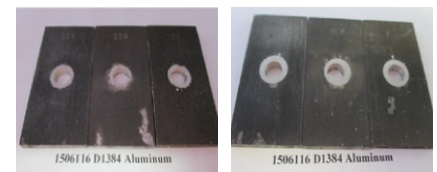
Steel



Cast Iron



Cast Aluminium



## STORAGE

CAFLON BS6580 has a shelf life of two years when stored in originally closed, air-tight containers at temperatures  $\leq 30^{\circ}\text{C}$ .

## AVAILABILITY

### 20 & 25 LITRE KEGS



### 1000 LITRE IBC's



### 205 LITRE DRUMS



### BULK



Mixing **CAFLON BS6580** with other coolants is not recommended.

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