



CAFLON OAT

Long life Antifreeze with Organic Acid
Technology corrosion protection



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CAFLON OAT

- 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 based on Organic Acid Technology (OAT).
- Is supplied red in colour and contains a bittering agent.

Performance, Features & Benefits:

- Offers outstanding protection against corrosion, overheating and frost.
- Long life' antifreeze.
- 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 (2010), ASTM D3306, SAE J1034, ASTM D6210, AFNOR R15-601 (with the exception of reserve alkalinity)
- Meets the performance requirements of DAF 74002, MB325.3, MTU MTL 5048, VW TL 774-D/F, MAN 324 SNF, Cummins CES 14603, Volvo VCS 418-0001

Typical Properties (Not a Specification)	CAFLON OAT	ASTM D3306
Appearance @ 20°C	Clear red 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	7.9	7.5 – 11.0
Reserve Alkalinity @ pH 5.5	3.0 typical	Report
Foaming Properties (ASTM D1881) Vol. (ml) Break (s)	Pass Pass	150 max 5 max

DILUTION

CAFLON OAT 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 OAT can also be supplied pre-diluted



(*) Can be supplied colourless also



CORROSION PROTECTION

Glassware Corrosion Test – ASTM D 1384

ASTM D 1384¹ Test Results

ASTM D 1384	Specimen Corrosion Weight Loss (mg)				
Specimen	#1	#2	#3	Avg	Max**
Copper	1	1	1	1	10
Solder	1	1	0	1	30
Brass	1	1	1	1	10
Steel	1	1	1	1	10
Cast Iron	0	2	2	1	10
Cast Aluminium	4	6	4	5	30

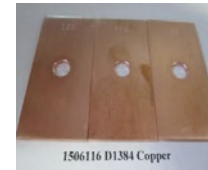
Corrosion of Aluminium under heat rejecting conditions - ASTM D 4340

ASTM D 4340¹ Test Results

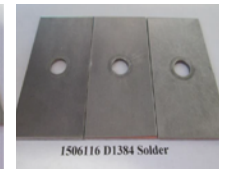
Run #1 Weight Loss (mg/cm ² /wk)	Run #2 Weight Loss (mg/cm ² /wk)	Average Weight Loss (mg/cm ² /wk)	ASTM Limit** (mg/cm ² /wk)
-0.08	-0.02	-0.05	1.00

** 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).

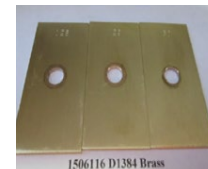
Copper



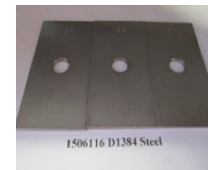
Solder



Brass



Steel



Cast Iron



Cast Aluminium



STORAGE

CAFLON OAT 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 OAT** with other coolants is not recommended.

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