



ANTIFREEZE

MF

Product Description:

ANTIFREEZE MF is a Si-OAT (Silicate-Organic Additive Technology) antifreeze with phosphate. It is especially designed for use in modern Internal Combustion Engines (ICE), Hybrids and indirect cooling systems of Battery Electric Vehicles (BEV).

ANTIFREEZE BS may not been used undiluted in a combustion engine.

ANTIFREEZE MF combines Ethylene Glycol as base fluid with cutting-edge silicate inhibitor technology with phosphate supported by a robust organic backbone to obtain the following properties:

- Thermal oxidative stability
- Controlled Atmosphere Brazing (CAB) flux compatibility
- State-of-the-art silicate stabilisation
- Outstanding aluminium passivation
- Excellent hard water stability
- Reduced waste thanks to long drain intervals and less replacement of materials
- Free from nitrites, borates, amines and 2-ethylhexanoic acid



ANTIFREEZE MF exceeds the following performance criteria:

BS 6580;2010	NF-R 15-601	ASTM D3306-20	UNE 26-361-88/1
JIS K2234;2018	FVV R 530;2005	GB 29743.1 2014/2022	Saab
BMW LC 87 / 97 / 18	Fiat 9.55523	MS 7170	GME L1301
VW TL-774-D	VW TL-774-F	VW TL-774-G	VW TL-774-J
VW TL-774-L (G12 EVO)	MAN 324 NF	MAN 324 Si-OAT	MWM 0199-99-2091/12
Iveco 18-1830	Cummins 85T8-2	DFTR 29C120	MB 325.5
MB 325.6	Deutz DQC CA-14	Volvo 128 6083 /002	Volvo TR-31854114-002
Toyota 1WW/2WW	JI Case JIC-501	Jenbacher / INNIO	Ford ESD-M97B49-A
MTU / Rolls-Royce MTL 5048			

Property	Unit	Test Method	Typical Value
Color			Colorless
Density @20°C	kg/l	ASTM D1122	1.120
Refractive Index, 20°C		ASTM D1218	1.432
Ash content	% w/w	ASTM D1119	2
Equilibrium Boiling Point	°C	ASTM D1120	>163
Reserve Alkalinity to inflection point		ASTM D1121	>26.3
pH (35vol%)		ASTM D1287	8.1
pH (50vol%)		ASTM D1287	8.3
Initial crystallisation (35vol%)	°C	ASTM D1177	-20
Initial crystallisation (50vol%)	°C	ASTM D1177	-36

Product Nr: 45182
Date Superseded: -

Date Issued: 28-07-2025
Revision nr: -