Product Data Sheet

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

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 crystalisation (35vol%)	°C	ASTM D1177	-20
Initial crystalisation (50vol%)	°C	ASTM D1177	-36

Product Nr: 45182
Date Superseded: -
Date Issued: 28-07-2025
Revision nr: -

77 B.V. | Van Ewijckskade 1C
1761 JA Anna Paulowna, The Netherlands | info@77lubricants.nl
www.77lubricants.com