

GLACIER ANTIFREEZE G13

Concentrated Fluid

GLACIER ANTIFREEZE G13 is a long life silicate containing antifreeze based on Organic Acid Technology (OAT) in ethylene glycol to be used as a cooling and heat transferring fluid in the latest generation VAG, MB and MAN combustion engines.

GLACIER ANTIFREEZE G13 is recommended to use, for good corrosion protection, at at least 33 vol. %, in the coolant solution. Mixtures with more than 70 vol.% of **GLACIER ANTIFREEZE G13** in water are not recommended. The maximum frost protection (about -69°C) is obtained at a mixture of 68 vol%.

GLACIER ANTIFREEZE G13 may not be used undiluted in a combustion engine.

GLACIER ANTIFREEZE G13 is based on ethylene glycol and a lobrid additive technology to obtain the following properties.

- Extended life.
- Environmentally friendly due to the absence of borate, nitrite, amines and phosphates
- Reliability
- Excellent corrosion protection for aluminium heat transfer surfaces.
- Excellent cavitation protection.

GLACIER ANTIFREEZE G13 meets the following performance criteria:

VW TL 774J

MB 325.5

MAN 324 Si-OAT

Typical Analysis

Properties	Unit	Method	Typical Value
Colour			Light Red/ Violet
Density @15°C	kg/m ³	ASTM D5931	1.135
Refractive Index, 20°C		ASTM D1218	1.437
Equilibrium Boiling Point	°C	ASTM D1120	>170
Reserve Alkalinity (pH 5.5)		ASTM D1121	5.7
pH Value		ASTM D1287	8.6
Freezing Protection			
35.6% dilution with water	°C		-20
41.0% dilution with water	°C		-25
49.8% dilution with water	°C		-35
Date Issued: 10-6-2021	Supersedes: 30-03-2018		Revision Nr.: 01

