



Antifreeze Si-OA Tech Concentrate

Product Sheet

Concentrated cooling and antifreeze liquid, based on pure **non-regenerated** ethylene glycol. Proper for cooling circuits of cars, motorcycles and commercial vehicles which require premium “long life” fluids of Si-OAT type (Silicate Organic Acid Technology). Protects the whole cooling system (radiators, cylinders, cylinder heats and water pumps) from overheating, corrosion and encrustation. Specially suitable for new generation engines, particularly the ones with parts in aluminium and light alloy. Free from nitrites, amines and phosphates.

INSTRUCTIONS FOR USE: Use the product once it has been diluted with demineralized water. Diluted at 50% in volume permits a freezing point of approximately -37°C and a boiling point of approximately 108°C. Abstain from mixing with fluids of a different technology. See the use manual of the manufacturing company, previously.

It is compatible with hard waters. Do not use flowing back waters, originating from industrial processes, or brackish waters.

VALUES OF WATER COMPOSITION

Hardness	170 ppm MAX (come CaCO ₃)
Chlorides	40 ppm MAX
Sulphates	100 ppm MAX
Total Solids	340 ppm MAX
pH	5,5 - 9

Maroil s.r.l. – Bardahl Italia

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TABLE OF DILUTION

Bardahl Antifreeze Si-OA Tech	Water	Freezing Point
1	2	-18 °C
1	1,5	-27 °C
1	1	-37 °C

PERFORMANCE LEVEL

ASTM D 3306 / D 4985, SAE J1034, CUNA NC 956 – 16, B.S. 6580:2010, AFNOR R15-601, FVV Heft R443, JIS K 2234, KSM 2142, NATO S 759, UNE 26361-88, EMPA, E/L 1415c, VW TL 774G (SFU G12++), MAN Si-OAT, MB 325.5

CHEMICAL-PHYSICAL CHARACTERISTICS

Color	Red-Violet
Look in water solution	Clear, free from suspended particles
Solubility in water	Complete
Density at 20°C	1,110 – 1,140 kg/l
Water	3% Max
Alkaline reserve	8 ml HCl 0.1 N Min
Freezing Point (50% Volume)	-37°C
pH (water solution 50%)	7,5 Min
Compatibility with hard waters	Compatible

The values shown in this table are just as an indication, variable within certain tolerances.

STORAGE

If stored and kept in its original containers and hermetically sealed, at a temperature not higher than 30°C, **Antifreeze Si-OA Tech Concentrate** has a life of at least 3 years. Do not store the product in galvanized containers.

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