



GLACIER G400

SOAT – SILICATED ORGANIC ACID TECHNOLOGY

PRODUCT DESCRIPTION:

GLACIER G400 is a premium Ethylene Glycol-based coolant concentrate offering anti-freeze and anti-boil properties. Formulated with advanced Si-OAT (Silicate–Organic Acid Technology) inhibitors, it is free from Phosphates, Amines, Borates, and Nitrites. The long-life formulation ensures superior protection against rust, corrosion, cavitation, and cooling system degradation. GLACIER G400 meets the stringent VW TL 774-G (G12++) specification and provides an extended service life of up to 8 years or 500,000 kilometers.

APPLICATION:

GLACIER G400 is designed for engines made of cast iron, aluminum or a combination of the two as well as cooling systems with aluminum and/or copper alloys, especially for all-alloy engines in which a special aluminum protection is required at higher temperatures, for passenger cars, commercial vehicles, buses, agricultural machines as well as stationary engines and devices that require a radiator antifreeze of this quality. Fill the cooling system with GLACIER G400 and water according to the desired mixing ratio. We recommend distilled water for this. Depending on water hardness and quality (hardness not greater than 3.6 mmol/l), dilution with tap water is also possible. GLACIER G400 should be blended with water in a concentration amongst 33% to 60% by volume prior to infilling. The usage of a 50/50 ratio for the mixture of water and GLACIER G400 is generally advisable.

Analysis values of the water may not exceed the following threshold values:

- Water hardness: 0 – 3.6 mmol/l
- Chloride content: max. 100 ppm
- Sulfate content: max. 100 ppm

FEATURES & BENEFITS:

- Outstanding corrosion protection
- Contains no amines, borates, nitrites or phosphates
- Protects against overheating
- Anti-cavitation, preventing foam and the retention of air, ensuring the good performance of the pump.
- Prevents the build-up of deposits, keeping the cooling system clean.
- Long life service product

GLACIER G400 FULFILLS THE FOLLOWING COOLANT STANDARDS:

- AS 2108-2004
- ASTM D 3306
- ASTM D 4985
- BS6580:2010
- CUNA NC 956-16
- AFNOR NFR 15-601
- JIS K 2234:2206
- PN-C 40007:2000
- SAE J1034
- ÖNORM V 5123
- SANS 1251:2005
- China GB 29743-2013

PERFORMANCE MEET OR EXCEEDS:

- Audi TL 774-G
- Bentley TL 774-G
- Bugatti TL 774-G
- GM 6277M
- Cummins CES 14603
- Deutz DQC CC-14
- Ducati (TL 774-G)
- Lamborghini TL 774-G
- MAN 324 Typ Si-OAT
- MB 325.6, MB 326.6
- (Ready Mix)
- MB 325.5, MB 326.5
- (Ready Mix)
- MTU MTL 5048
- Porsche TL 774-G
- Seat TL 774-G
- Skoda TL 774-G
- VW TL 774-G
- FORD WSS-M97B44-D

TYPICAL PROPERTIES:

PARAMETERS	ASTM	UNIT	GLACIER G400	
			GLACIER G400 Concentrate	GLACIER G400 (50% Ready Mix)
pH	D1278	cSt	8.5	8.3
Freezing Point	D1177	°C	-37	N/A
Boiling Point	D1120	cSt	182	108
Density at 15.5C	D4052	g/cm3	1.120	TBR

DISCLAIMER: The test data presented above is indicative and not a strict specification, as it may vary within acceptable production tolerances. Internal reserves the right to update or modify this test data. For the most accurate and current information, please refer to the latest version of this Technical Data Sheet (TDS).

HEALTH & SAFETY, ENVIRONMENT:

Continuous or repeated exposure to oil may lead to skin problems. Avoid contact with the oil. In case of contact, wash thoroughly with soap and water. Do not dispose of used oil in drains or the environment. Dispose of it at an authorized used oil collection point. For additional safety information, please refer to the MSDS available on our website at www.internal.net.

PROTECT THE ENVIRONMENT:

Take used oil to an authorized collection point. Comply with local regulation. Do not discharge into drains, soil or water.