



BOREAS G400

SOAT – SILICATED ORGANIC ACID TECHNOLOGY

PRODUCT DESCRIPTION:

BOREAS G400 is a concentrated ethylene glycol-based coolant designed to provide anti-freeze and anti-boil protection. It features an advanced Si-OAT (Silicate-Organic Acid Technology) inhibitor system, free from phosphates, amines, borates, and nitrites. The long-lasting formulation effectively prevents rust, corrosion, cavitation, and cooling system degradation. BOREAS G400 meets the latest VW coolant specification VW TL 774-G (G12++) and offers a service life of up to 8 years or 500,000 kilometers.

APPLICATION:

BOREAS 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 BOREAS 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. BOREAS 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 BOREAS 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

BOREAS 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 and China GB 29743-2013

PERFORMANCE LEVELS / MEETS 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	BOREAS G400	
			BOREAS G400 Concentrate	BOREAS 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 provided above is for reference purposes and is not a strict specification, as variations within acceptable production tolerances may occur. Phoenix reserves the right to update or revise this test data. For the most accurate and up-to-date information, please consult the latest version of this Technical Data Sheet (TDS).

HEALTH & SAFETY, ENVIRONMENT:

Prolonged and repeated contact with oil may cause skin disorders. Avoid contact. Wash immediately with soap and water. Do not discharge used oil in to drains or the environment. Dispose to an authorized used oil collection point. For further Information on Safety Guidelines please refer to MSDS available on our website Phoenixlubricants.com