



## SUBZERO G13

### LOW SILICATE HYBRID (LOBRID)

#### PRODUCT DESCRIPTION:

SUBZERO G13 is a concentrated coolant additive that combines mono ethylene glycol and glycerol. It utilizes a unique hybrid technology that incorporates a selection of inhibitors. This coolant additive is free of nitrites, amines, and phosphates. It features a performance anti-corrosion inhibitor system that combines silicates with organic acid technology (OAT). SUBZERO G13 offers excellent protection against frost, corrosion, and overheating for both modern passenger cars and commercial vehicle engines throughout their entire service life. It meets the requirements of VW coolant specification VW TL 774-J (G13).

#### APPLICATION:

Before filling into the cooling system, SUBZERO G13 should be diluted with water. It is recommended to use distilled or demineralized water for this purpose. However, if the water hardness is not greater than 3.6 mmol/l, dilution with tap water is also acceptable. The recommended concentration for blending SUBZERO G13 with water is between 33% to 60% by volume. Typically, a 50/50 ratio of water and SUBZERO G13 is advisable for the mixture.

#### 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:

- Contains renewable raw materials.
- Contains no amines, nitrites and phosphates.
- Suitable for aluminum as well as cast iron engines.
- Anti-cavitation, preventing foam and the retention of air, ensuring the good performance of the pump.
- Prevents the buildup of deposits, keeping the cooling system clean.
- Extended protection

#### SUBZERO G13 FULFILLS THE FOLLOWING COOLANT STANDARDS:

- ASTM D 3306

#### PERFORMANCE LEVELS / MEETS OR EXCEEDS:

- Volkswagen TL-774 J (G13)

#### TYPICAL PROPERTIES:

PARAMETERS	ASTM	UNIT	SUBZERO G13
			SUBZERO G13 Concentrate
pH	D1278	cSt	8.5
Freezing Point	D1177	°C	N/A
Boiling Point	D1120	cSt	178
Density @15.5C	D4052	g/cm3	TBR

#### DISCLAIMER:

The test data provided is not a final specification; rather, it serves as a guideline and may vary within acceptable production tolerances. Bravoil reserves the right to modify this test data. Any updates will supersede previous versions, so please refer to the most recent 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 [www.bravoil.ae](http://www.bravoil.ae)

#### HEALTH & SAFETY:

This product is not likely to present any significant health or safety hazards when properly used in the recommended application and good standards of personal hygiene are maintained. Reference is made to the Safety Data Sheet (SDS) which is available on request via your local sales office or via the internet [www.bravoil.ae](http://www.bravoil.ae)

#### PROTECT THE ENVIRONMENT:

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

#### STORAGE:

We recommend to store all packages under cover. In case outside storage is unavoidable, drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should never be stored above 60°C, exposed to hot sun or freezing conditions.