

**SUBZERO G12+  
ORGANIC ACID TECHNOLOGY****PRODUCT DESCRIPTION:**

SUBZERO G12+ is a concentrated long-life antifreeze coolant that is suitable for heavy-duty applications, passenger cars, and stationary combustion engines. It does not contain nitrites, amines, silicates, or phosphates. The highly efficient Organic Acid Technology (OAT) is used in its formulation. SUBZERO G12+ protects highly loaded engines from frost, overheating, corrosion, and cavitation. It provides complete protection to the cooling system and prevents corrosion on all common metals found in engine cooling systems, especially aluminum. SUBZERO G12+ meets the requirements of the VW coolant specification VW TL 774-D/F (G12, G12+) and has a service life of 7 years or 450,000 km.

**APPLICATION:**

Before filling into the cooling system, SUBZERO G12+ should be diluted with water. It is recommended to use distilled 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 G12+ with water is between 33% to 60% by volume. Typically, a 50/50 ratio of water and SUBZERO G12+ 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:**

- Perfect for engines, cylinder heads and radiators made from aluminum
- Contains no amines, nitrites, phosphates or silicates
- Universal usability (passenger cars, truck and stationary 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.
- Long life service product

**SUBZERO G12+ 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-D/F
- Bentley TL 774-D/F
- DAF MAT 74002
- Deutz DQC CB-14
- Ferrari (> 2010)
- Lamborghini TL 774-D/F
- MAN 324 SNF
- MB 325.3
- MB 326.3 (Ready Mix)
- Mini LC-07
- MTU MTL 5048
- Porsche TL 774-D/F
- Seat TL 774-D/
- MB 326.3 (Ready Mix)
- Skoda TL 774-D/F
- Volkswagen VW TL 774-D/F
- TOYOTA TSK 2601G-8A
- GM 6277M
- PSA B71 5110
- FORD WSS-M97B44-D

**TYPICAL PROPERTIES:**

PARAMETERS	ASTM	UNIT	SUBZERO G12+	
			SUBZERO G12+ Concentrate	SUBZERO G12+ (50% Ready Mix)
pH	D1278	cSt	8.5	8.3
Freezing Point	D1177	°C	N/A	-37
Boiling Point	D1120	cSt	170	108
Density at 15.5C	D4052	g/cm3	1.113	TBR

**HEALTH & SAFETY, ENVIRONMENT:**

Prolonged and repeated contact with antifreeze may cause skin disorders. Avoid contact. Wash immediately with soap and water. Do not discharge used antifreeze in to drains or the environment. 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:**

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.