

## G-Energy Antifreeze Si-OAT

Extra High Performance Antifreeze

**G-Energy Antifreeze Si-OAT** is extra-long-life coolant made of ethylene glycol. G-Energy Antifreeze Si-OAT uses hybrid organic acid technology (Si-OAT) to provide high level of protection against damage caused by freezing, cavitation, corrosion and overheating. G-Energy Antifreeze Si-OAT is free of nitrites, amines, phosphates and borates. Concentrated antifreeze formula needs to be diluted prior to be used.

### Applications

- Car, truck and bus engines of both ferrous and aluminum construction
- G-Energy Antifreeze Si-OAT Concentrate must be diluted prior to be used as recommended by vehicle manufacturer (see dilution chart).
- For preparation of the coolant it is recommended to use distilled or deionized water. Tap water can be used when not excessively hard.

### Dilution Chart

Antifreeze concentrate/Water, v/v%	Freeze protection
33/67	-18°C
50/50	-38°C
60/40	-55°C

### Meets the requirements:

- ASTM D3306
- ASTM D4985
- SAE J1034
- BS 6580:2010
- AS 2108-2004
- CUNA NC 956-16
- ÖNORM V 5123
- JIS K 2234:2006
- SANS 1251:2005
- China GB 29743-2013
- VW
- Audi
- Seat
- Skoda
- Lamborghini
- Bentley
- Bugatti TL 774-G (G12++)
- Porsche (vehicles built as from 1998)
- Daimler
- MB 325.5 and 325.6
- MAN 324 Si-OAT
- Cummins CES 14603
- MTU MTL 5048

### Typical Characteristics

Properties	Method	G-Energy Antifreeze Si-OAT
Color	visually	Red
Density @20°C, g/cm <sup>3</sup>	DIN 51 757-4	1,123 – 1,126
Refractive Index @20°C	DIN 51 423-2	1,432 – 1,436
Boiling point, °C	ASTM D1120	> 160°C
Flash point, °C	DIN EN ISO 2592	> 120°C
pH (33% volume solution)	ASTM D1287	8,2-8,6
Reserve Alkalinity, ml HCl	ASTM D1121	8 – 11
Water Content, wt%	DIN 51777-1	max. 3,0 %
Freezing Point (50% volume solution), °C	ASTM D 1177	below -37 °C
Freezing Point (33% volume solution), °C	ASTM D 1177	below -18 °C
Foaming characteristics (33% volume solution)	ASTM D 1881	max.50 ml/max.5 s
Foaming characteristics (33% volume solution)	VW TL 774-G	max.20 ml/max.5 ml

### Available type and size

Product Name	Type	Available Size
G-Energy Antifreeze Si-OAT	Concentrate (needs to be diluted prior to be used)	1kg, 220kg
G-Energy Antifreeze Si-OAT 40	Ready to use product that has been premixed with concentrate and water to obtain -40°C freezing point	1kg, 5 kg , 10kg , 220kg

## Health, Safety & Environment

Information is provided for products in the relevant Safety Data Sheet (SDS). This provides guidance on potential hazards, precautions and first-aid measures, together with environmental effects and disposal of used products. SDS's are available upon request through your sales contract office. This product should not be used for purposes other than its intended use.

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✔ ISO 9001

✔ ISO 14001

✔ ISO/TS 16949

✔ OHSAS 18001

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