

G-ENERGY ANTIFREEZE SI-OAT

G-Energy Antifreeze Si-OAT is a concentrate of the liquid coolant of a low-hybrid type (contains ethylene glycol and a package of corrosion inhibitors based on salts of organic acids and silicates (Si-OAT)). Intended for use in internal combustion engines. When ready to use, it provides improved protection against cavitation and highly efficient cooling of engines at ambient temperature according to the recommendations for dilution with water. Before use, dilute the concentrate with distilled water. Do not use without dilution.

Application*:

- Light motor and load-carrying vehicles.
- Stationary engines.
- Heavy-duty engines.
- The concentrate is not used as an operating liquid coolant.
- Before use, the concentrate must be diluted with water from 40% to 60%, see the graph.
- The optimal liquid coolant concentration is 50%.
- Use distilled or demineralized (filtered) water for dilution.

Advantages:

- Contains a package of corrosion inhibitors based on salts of organic acids and silicates (Si-OAT).
- Contains no nitrites, amines, phosphates and borates.
- Provides engine protection against corrosion, overheating and freezing.
- Effectively protects all important parts of the vehicle cooling system from corrosion and deposit formation: cooling channels in blocks and cylinder heads, radiator, water pump and heat exchanger.

Typical physical and chemical properties

Parameters	Method	G-Energy Antifreeze Si-OAT
Appearance	Visually	Transparent homogeneous red-violet liquid without visible foreign inclusions
Density at 20 °C, g/cm ³	ASTM D1122	1.124
Refractive index at 20 °C	GOST 18995.2	1.432
Boiling point, °C	ASTM D1120	> 160
pH (50% dilution)	ASTM D1287	8.5
Alkalinity reserve (50% dilution), ml	ASTM D1121	10.0
Water content, %	ASTM D1119	< 5.0
Chilling point, 50% vol., °C	ASTM D1177	- 37
Foamability, 33% vol.	ASTM D1881	max 50 ml / 3 s

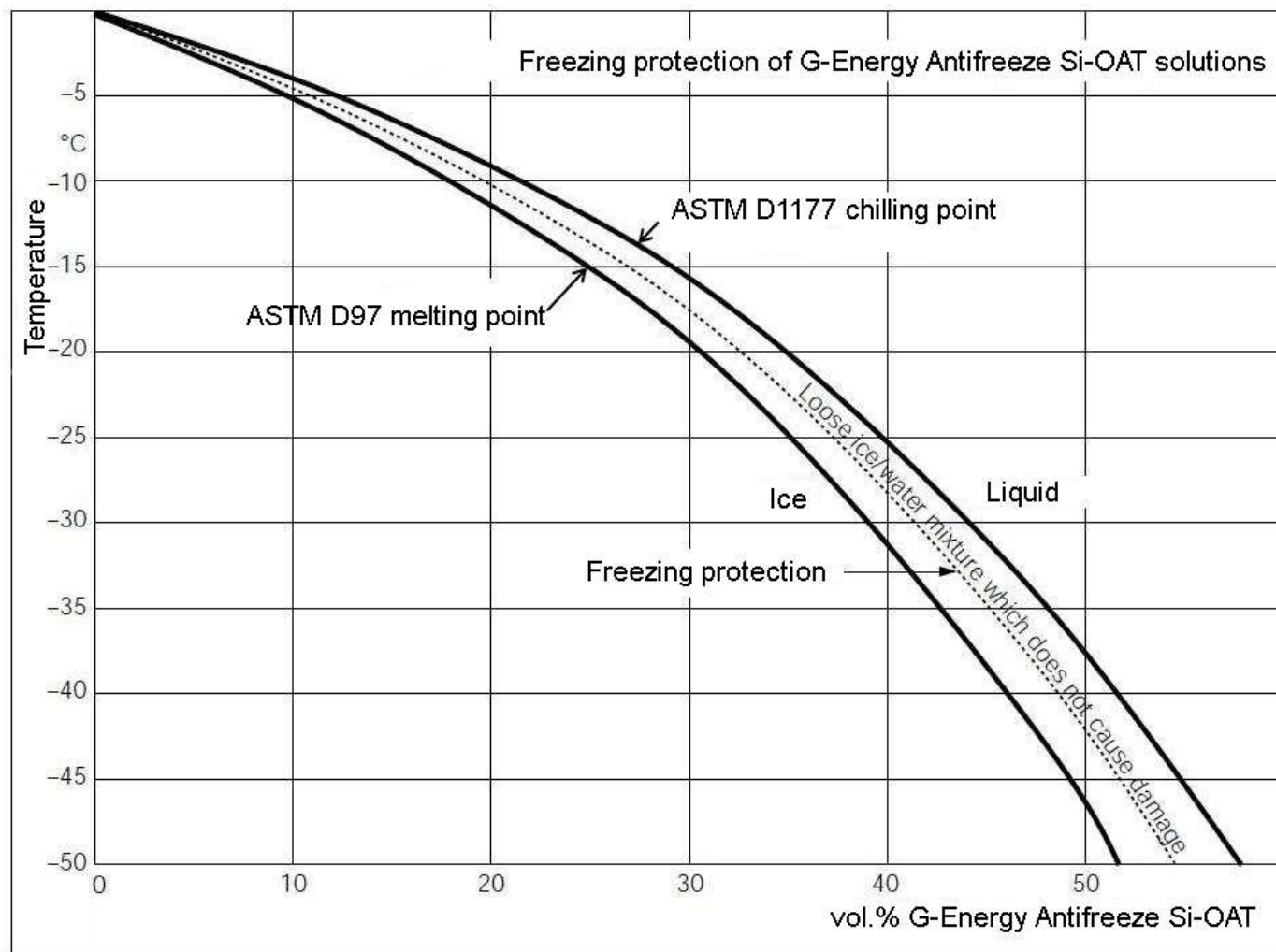
Specifications:

- Cummins CES 14603; MAN 324 Si-OAT; MTU MTL 5048; WV TL 774 G (G12++); MB-Approval 325.5; BMW LC 18

Standards:

- ASTM D3306; ASTM D4985; GOST 33591-2015

Graph of freezing protection temperature* depending on the volume concentration.



*Freezing protection temperature is the arithmetic mean between chilling point (appearance of crystals) and melting point (loss of fluidity)

Corrosion in Glassware Test, VW TL 774-G

	Copper	Solder	Brass	Steel	Cast iron	GAISi6Cu4	AlSi12	AlMn	GAISi10Mg
	Weight loss ¹ , g/m								
VW TL 774-G standard	3	3	3	3	3	2	2	2	2
G-Energy Antifreeze Si-OAT	0.1	0.1	-0.4	-0.1	-0.1	-0.5	-0.9	-0.4	-0.7

1 - negative values indicate weight gain

The company's management system is certified in accordance with the international standards

ISO 9001



ISO 14001



ISO 45001

