

G-ENERGY ANTIFREEZE 40 PRO G12++

Ready-to-use liquid coolant based on ethylene glycol and low-hybrid type corrosion inhibitors (based on salts of organic acids and silicates (Si-OAT)). Intended for use in internal combustion engines. Protects against corrosion and deposit formation, provides extended change interval.

Application:

- Light motor and load-carrying vehicles.
- Stationary engines.
- Heavy-duty engines.

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 40 PRO G12++
Appearance	Visually	Transparent homogeneous red-violet liquid without visible foreign inclusions
Density at 20 °C, g/cm ³	ASTM D1122	1.073
Refractive index at 20 °C	GOST 18995.2	1.386
Boiling point, °C	ASTM D1120	108
pH	ASTM D1287	8.8
Alkalinity reserve, ml	ASTM D1121	3.6
Chilling point, °C	ASTM D1177	- 37
Foamability	ASTM D1881	max 50 ml / 3 s

Specifications:

- MAN 324 Si-OAT, MTU MTL 5048, Volkswagen TL774 J, TL774K, TL774G, VW (G12++), BMW LC-18, BMW HT-12, BMW GS 94000, Volkswagen/ Audi/ Seat/ Skoda/ Lamborghini/ Bentley/ Bugatti, Porsche (from 1996), Daimler/ Mercedes-Benz 325.5/ 325.6

Standards:

- ASTM D3306, ASTM D4985, ASTM D 6210, CHINA GB 29743

Corrosion in Glassware Test, ASTM D1384

	Brass	Copper	Solder	Steel	Cast iron	Aluminum
	Weight loss ¹ , mg/plate					
ASTM D3306 standard (max)	10	10	30	10	10	30
G-Energy Antifreeze 40 PRO G12++	0,9	0,5	1,7	-1,1	-0,9	2,4

1 - negative values indicate weight gain

Hot Surface Corrosion Test, ASTM D4340

	Weight loss ¹ , mg/cm ² /week	ASTM D3306 standard
Aluminum	-0.13	max. 1.0

2 - test results on the concentrate of G-Energy Antifreeze PRO G12++ using aggressively corrosive water

Dynamic Corrosion Test, ASTM D2570

	Brass	Copper	Solder	Steel	Cast iron	Aluminum
	Weight loss, mg/plate ²					
ASTM D3306 standard (max)	20	20	60	20	20	60
G-Energy Antifreeze 40 PRO G12++	-3.5	-2.1	2.1	1.3	-3.0	-2.4

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

ISO 9001



ISO 14001



ISO 45001

