

G-ENERGY ANTIFREEZE NF 40

Ready-to-use liquid coolant based on ethylene glycol, carboxylic acid salts and silicates (hybrid type). Intended for cooling systems of internal combustion engines. Provides comprehensive protection against corrosion and extended change intervals compared to traditional antifreezes. It is a solution of concentrate and water in a ratio of 50/50 by volume.

Application:

- Light motor and load-carrying vehicles, buses.
- Stationary engines, special vehicles.

Advantages:

- Contains a hybrid package of corrosion inhibitors based on salts of organic acids and silicates.
- Contains no nitrites, amines, phosphates and borates (NF – Nitrite Free).
- Protects the engine from corrosion, overheating and defrosting.
- Provides the highest degree of corrosion protection for the cylinder block, block head, radiator, pump, heat exchangers.

Typical physical and chemical properties

Parameters	Method	G-Energy Antifreeze NF 40
Appearance	visually	Transparent homogeneous blue-green liquid without visible foreign inclusions
Density at 20 °C, g/cm ³	ASTM D 1122	1.072
Refractive index at 20 °C	GOST 18995.2	1.385
Boiling point, °C	ASTM D1120	108
pH	ASTM D1287	8.6
Alkalinity reserve, ml	ASTM D1121	17.6
Chilling point, °C	ASTM D 1177	-38
Foamability	ASTM D 1881	max 50 ml / 3 s

Specifications:

- VW TL 74-C (G-11), Deutz DQC CA-14, Audi, BMW N 600 69.0, BMW LC-87, Ford, GM B 040 0240, Iveco T18-1804 Classe T3 E4, MAN 324 NF, MB 325.0, MTU MTL 5048, Porsche 924, 928, 944, 968, Saab 6901599, Seat, Skoda, Mitsubishi

Standards:

- Afnor R15-601, AS 2108-2004, ASTM D3306, ASTM D4985, BS 6580-2010, ONORM V 5123, CUNA NC 956-16, SANS 1251:2005, 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 NF 40	2.0	2.0	-3.0	-1.0	-1.0	0

1 - negative values indicate weight gain

Hot Surface Corrosion Test, ASTM D4340

	Weight loss ¹ , mg/cm ² /week	ASTM D3306 standard
Aluminum	-0.1	max. 1.0

2 - test results on the concentrate of G-Energy Antifreeze NF 40 using aggressively corrosive water

Dynamic Corrosion Test, ASTM D2570

	Brass	Copper	Solder	Steel	Cast iron	Aluminum
	Weight loss ¹ , mg/plate					
ASTM D3306 standard (max)	20	20	60	20	20	60
G-Energy Antifreeze NF 40	6.0	7.0	-1.0	-1.0	-3.0	1.0

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

ISO 9001



ISO 14001



ISO 45001

