

G-ENERGY ANTIFREEZE SNF

G-Energy Antifreeze SNF is a concentrate of the liquid coolant based on ethylene glycol and salts of carboxylic acids (carboxylate type). Intended for cooling systems of 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, tractors and buses.
- Stationary diesel and gas reciprocating 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 (SNF – Silicate Nitrite Free).
- Contains no silicates, nitrites, amines, phosphates and borates.
- Provides engine with protection against corrosion, overheating and freezing, especially aluminum engines subjected to high loads.
- 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 SNF
Appearance	Visually	Transparent homogeneous red-violet liquid without visible foreign inclusions
Density at 20 °C, g/cm ³	ASTM D1122	1.112
Refractive index at 20 °C	GOST 18995.2	1.431
Boiling point, °C	ASTM D1120	> 160
pH (50% dilution)	ASTM D1287	8.9
Alkalinity reserve (50% dilution), ml	ASTM D1121	10.1
Water content, %	ASTM D1119	< 5
Chilling point, 50% vol., °C	ASTM D1177	- 38
Foamability, 33% vol.	ASTM D1881	max 100 ml / 3 s

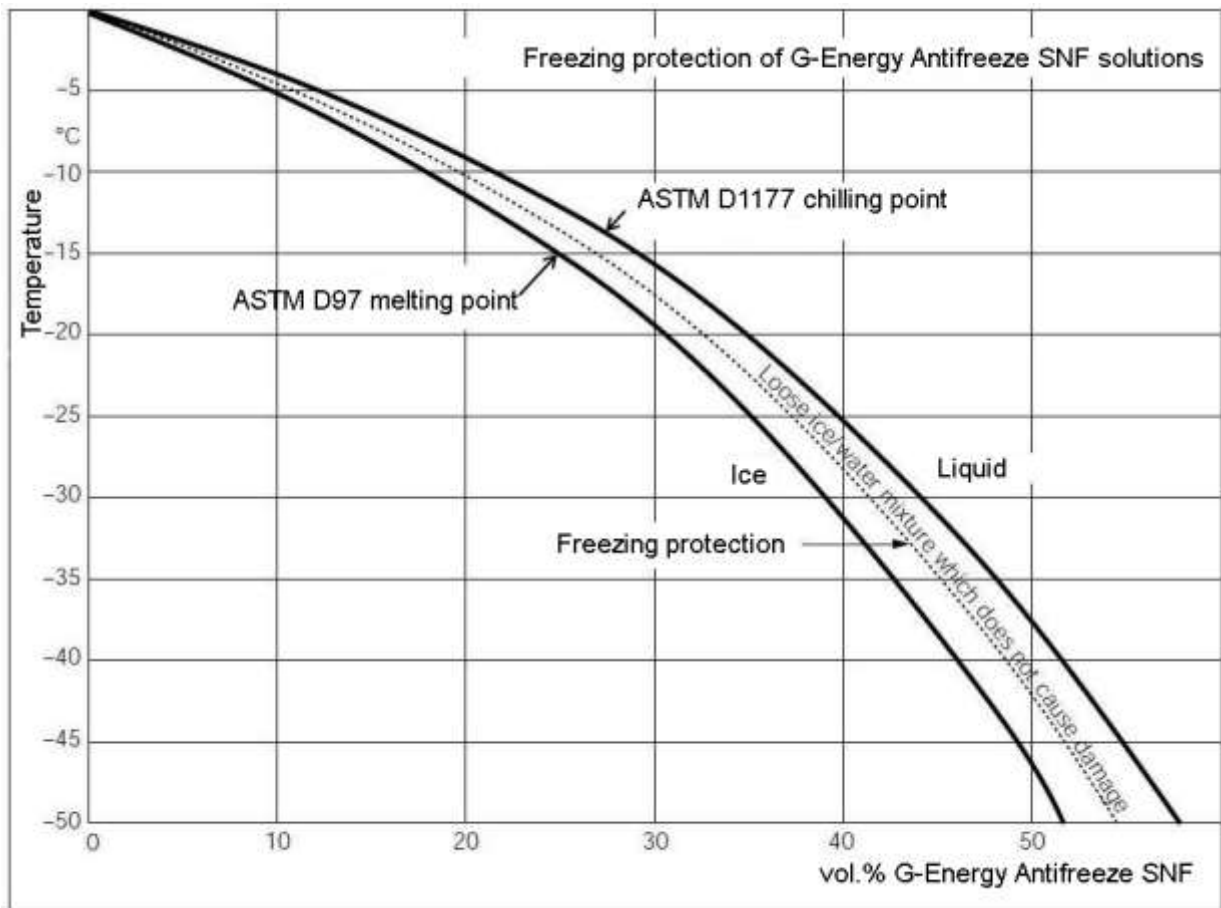
Specifications:

- MB 325.3, MTU MTL 5048, MWM 2091/15, MAN 324 SNF, VW/Audi/Seat/Skoda TL 774-D/F (G-12/G-12+), Bentley TL 774-D/F, DAF MAT 74002, DEUTZ DQC CB-14, BMW LC-13, BMW LC-07, Jaguar (built as from 1999), Lamborghini TL 774-D/F, MINI Cooper D (built as from 2007), Porsche (built as from 1996), FORD WSS-M97B44-D, Great Wall, Fiat, Case New Holland, Claas, Caterpillar, Jenbacher TA 1000-0200, Deutz 0199-99-1115, DDC Power Cool Plus, GM 6277 M, Wärtsilä 32-9011, John Deere JDM H5, Komatsu KES 07.892, Liebherr MD1-36-130, Mazda, Isuzu, Volvo VCS 418-0001

Standards:

- ASTM D3306, ASTM D4985, ASTM D6210, ASTM D7583, BS 6580:2010, KSM 2142, JASO M325, JIS K2234, AS 2108-2004, SAE J1034, AFNOR SNF R15-601, ÖNORM V 5123, CUNA NC 956-16, SANS 1251:2005, SH 0521-1999, CHINA GB 29743

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, 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 SNF	1.4	1.8	2.2	0.2	1.3	4.5

1 - negative values indicate weight gain

Hot Surface Corrosion Test, ASTM D4340

	Weight loss, mg/cm ² /week ¹	ASTM D3306 standard
Aluminum	<0.2	max 1.0

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

Pump Cavitation Test, ASTM D2809

	Rating	ASTM D 3306 standard
Aluminum water pump	9	min 8

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

ISO 9001



ISO 14001



ISO 45001

