



GAZPROMNEFT ANTIFREEZE SF12+ 40

GAZPROMNEFT ANTIFREEZE SF12+ 40 is a ready-to-use carboxylate-type coolant based on ethylene glycol for modern internal combustion engines, including automobile and stationary engines. Provides an extended replacement interval compared to traditional antifreeze.

Application

- Cars and trucks.
- Stationary diesel engines.
- Special equipment, buses.

Advantages

- Meets the requirements of MAN 324 SNF and VW TL 774-F (G12+) specifications.
- The additive package is manufactured using silicate-free technology.
- Can be used in both cast iron and aluminum engines.
- Does not form deposits and scale.
- Reliably and long-term protects against corrosion.
- Prevents cavitation.
- Does not tend to form foam.

Typical physical and chemical properties

Parameters	Method	GAZPROMNEFT ANTIFREEZE SF12+ 40
Appearance	Visually	Transparent homogeneous red liquid without visible foreign inclusions
Density at 20 °C, g/cm ³	ASTM D1122	1,068
Refractive index at 20 °C	GOST 18995.2	1,386
Boiling point, °C	ASTM D1120	108
Alkalinity reserve, ml	ASTM D1121	6,5
рН	ASTM D1287	8,5
Foamability	ASTM D1881	max 100 ml / 3 s
Chilling point, °C	ASTM D1177	-37

Specifications and standards

- VW TL 774-F (G12+), MB 325.3, MAN 324 Typ SNF, FORD WSS-M97B44-D, John Deere, JIS K2234, Volvo Penta, Great Wall, Fiat, Case New Holland, Claas, NFR 15-601, Caterpillar, KSM 2142, JASO M325
- ASTM D3306, ASTM D4985, SAE J1034, BS 6580-2010, Afnor NF R15-601, GOST 33591-2015

Approvals

PJSC Avtodizel (YaMZ)

ASTM D1384. Corrosive effect on metals (corrosion in glass), 336 h, 88 °C

	Brass	Copper	Solder	Steel	Cast iron	Aluminum
	Average Plate Weight Change, mg*					
ASTM D3306 standard (max)	10	10	30	10	10	30
GAZPROMNEFT ANTIFREEZE SF12+ 40	1,3	1,8	2,1	0,2	1,4	4,6

* Negative values mean weight gain

ASTM D4340. Hot surface corrosion, 25% vol., 168 h, 135 °C

	Weight loss, mg/cm/week
ASTM D3306 standard (max)	1,0
GAZPROMNEFT ANTIFREEZE SF12+ 40	<0,2

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

ISO 9001



ISO 45001







The above data are typical for manufactured products at the moment. Due to ongoing research and development, the information contained in the document is subject to change. Information on the safe use of the product is contained in the Safety Data Sheet. More detailed information can be obtained from the Company's technical experts. E-mail: <u>Techservice@gazprom-neft.ru</u>. 12/2024