



# **GAZPROMNEFT ANTIFREEZE 40**

GAZPROMNEFT ANTIFREEZE 40 is a ready-to-use traditional coolant based on ethylene glycol for internal combustion engines, including heavily loaded engines. Provides improved protection against cavitation.

## **Application**

- Cars and trucks, special equipment.
- Heavily loaded diesel and gas piston engines.
- Mining dump trucks.
- Stationary engines of mini-power plants.

#### **Advantages**

- Effective corrosion protection low-silicate additive package containing nitrites.
- Excellent cavitation protection for "wet" cylinder liners.
- No deposits or scale the additive package does not contain phosphates.
- Improved heat transfer optimal temperature conditions for engine operation.
- Protection of the cooling system from freezing and boiling the base component is ethylene glycol.

### Typical physical and chemical properties

Parameters	Method	GAZPROMNEFT ANTIFREEZE 40
Appearance	Visually	Transparent homogeneous red liquid without visible foreign inclusions
Density at 20 °C, g/cm <sup>3</sup>	ASTM D1122	1,070
Refractive index at 20 °C	GOST 18995.2	1,385
Boiling point, °C	ASTM D1120	108
Alkalinity reserve, ml	ASTM D1121	6,2
рН	ASTM D1287	9,7
Foamability	ASTM D1881	max 100 ml / 3 s
Chilling point, °C	ASTM D1177	-37

#### **Specifications and standards**

- Cummins CES 14603, Caterpillar, Detroit Diesel 7SE298, General Motors 6038M, John Deere 8650-5, Case Corp. MS1710, New Holland 9-86, Navistar, Freightliner 48-22880, PACCAR, MACK, Waukesha 4-1974D, LLC Avtozavod GAZ, PJSC AVTOVAZ, OJSC UKH MMZ
- ASTM D3306, ASTM D4985, ASTM D6210, TMC RP329, SAE 1941, BS 6580-1992, GOST 33591-2015, China GB 29743

#### **Approvals**

PJSC Avtodizel (YaMZ); PJSC KAMAZ

#### 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 40	0	1	15	-1	-1	-1

\* 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 40	0,01		

#### ASTM D2570. Dynamic corrosion test, 1064 h, 88 °C

	Brass	Copper	Solder	Steel	Cast iron	Aluminum
	Average weight change in mg per sample*					
ASTM D3306 standard (max)	20	20	60	20	20	60
GAZPROMNEFT ANTIFREEZE 40	0	1	25	0	-2	0

#### ASTM D2809. Pump cavitation, 100 h, 113 °C

Aluminum water pump	Rating	ASTM D3306 standard
GAZPROMNEFT ANTIFREEZE 40	8	min 8

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

**ISO 9001** 



ISO 14001



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