



QUALITY CERTIFICATE NO. 545



Hydrocarbon gases liquefied fuel grades propane automotive (PA) GOST R 52087-2018.

**Declaration of Conformity of the EAEU N RU D- RU.CC06.B.00089/19 of
 28.06.2019 valid until 27.06.2022**

Technical Regulations of the Eurasian Economic Union "Requirements for Liquefied Petroleum Gases for their Use as Fuel" (EAEU TR 036/2016)

Date of manufacture	29.11.2021	Product vessel No.	5/3
Date of sampling	29.11.2021	NET weight, t	33.300
Test date:	29.11.2021	Rail tank car No.	50886340
		Test report: No.	01.27-264

The tests were carried out at the Testing Center - Quality Control Department of NNK JSC
 Certificate of accreditation No. ROSS RU.0001.515720 Date of entry of information into the register of accredited entities July 29, 2015.

No. Item No.	Name of the indicator	Testing method	The norm according to GOST R 52087-2018	The norm for the EAEU TR 036/2016	Actually
1	Mass fraction of components, %: - the amount of methane, ethane and ethylene - the amount of propane and propylene including propane - the amount of butanes and butylenes - the amount of unsaturated hydrocarbons	GOST 10679-2019	Not standardized Definition required - 85 ±10 Not standardized Definition required maximum 6.0	- - - - maximum 6.0	0.0190 91.28 91.28 8.70 0.0682
2	Volume fraction of the liquid residue at a temperature of 20° S, %	GOST R 52087-2018 item 8.2	maximum 0.7	maximum 1.6	Absence
3	Saturated vapor pressure is excessive, MPa, at temperature: + 45°C - 20°C - 30°C	GOST 28656-2019	maximum 1.6 - minimum 0.07	maximum 1.6 minimum 0.07 -	1.36 0.13 0.07
4	Mass fraction of hydrogen sulfide and mercaptan sulfur, % including hydrogen sulfide	GOST 22985-2017	maximum 0.01 maximum 0.003	maximum 0.01 maximum 0.003	0.0021 Less than 0.0002%
5	Free water and alkali content	GOST R 52087-2018 item 8.2	Absence	Absence	Absence
6	Odor	GOST EN 589-2014 Appendix A	Characteristic unpleasant at a concentration in the air of 20% vol. From the lower limit of flammability	Unpleasant and characteristic at a concentration in the air of 20% of the lower limit of flammability	compliant
7	Octane number	GOST EN 589-2014 Appendix B	minimum 89	minimum 89.0	95.0

Note: Methods according to items 6, 7 are not included in the scope of accreditation of the Testing Center - Quality Control Department of NNK JSC

Conclusion: Hydrocarbon gases liquefied fuel masks propane automotive (PA) meets the requirements:

- Technical Regulations of the Eurasian Economic Union "Requirements for Liquefied Petroleum Gases for their Use as Fuel" (EAEU TR 036/2016)
 - GOST R 52087-2018.

Additional information

Density at 15 °C, kg/m3 GOST 28656-2019 514.4

The manufacturer guarantees that the product quality meets the requirements of this standard, subject to the conditions of transportation and storage.
 The warranty period of storage is 6 months from the date of manufacture

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Specialist

/signature/
 (signature)

O.S. Feklina
 (surname, initials)

Certificate issue date: 30.11.2021