



## QUALITY CERTIFICATE No. 1061

### Hydrocarbon liquefied fuel gases for municipal and household consumption butane technical grade (BT)

#### GOST 20448-2018 as amended

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

**EXPORT**



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

<b>Date of manufacture</b>	20.10.2021.	<b>Product vessel No.</b>	1/1
<b>Date of sampling</b>	20.10.2021.	<b>Net weight, t</b>	40.550
<b>Test date:</b>	20.10.2021.	<b>Net volume, l</b>	69878
		<b>Rail tank car No.</b>	76694264
		<b>Test report: No.</b>	01.11-137

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	GOST 20448-2018 as amended	The norm for the EAEU TR 036/2016	Actually
1	Content of components: - the amount of methane, ethane and ethylene, mass fraction, % - the amount of propane and propylene, mass fraction, % - the amount of butanes and butylenes, mass fraction, %	GOST 10679-2019	Not standardized Definition required Not standardized The definition must be at least 60.0	-	0.0307 0.271 99.69
2	The content of hydrogen sulfide and mercaptan sulfur, - mass fraction, % including hydrogen sulfide - mass fraction, %	GOST 22985-2017	maximum 0.013 maximum 0.003	maximum 0.013 maximum 0.003	0.0021 Less than 0.0002
3	Saturated vapor pressure is excessive, MPa, at temperature: - plus 45°C	GOST 28656-2019	maximum 1.6	maximum 1.6	0.4
4	Volume fraction of liquid residue at 20°C, %	GOST 20448-2018, item 9.2 and Appendix B	maximum 1.8 Absence	maximum 1.8 Absence	Absence Absence
5	Free water and alkali content	GOST 22387.5-2014 item 7.1	minimum 3	minimum 3	-
6	Odor intensity, Point				
	Note 1 to table 2 of item 5.2 of GOST 20448-2018: "It is allowed not to determine the intensity of the odor with a mass fraction of mercaptan sulfur in liquefied gas of 0.002% (20 ppm) or more." Mass fraction of mercaptan sulfur, %				0.0021

**Conclusion: Liquefied petroleum fuel gas for municipal consumption of the butane technical (BT) grade 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 20448-2018 as amended

**Additional Information:**

- Mass fraction of propane, %	GOST 10679-2019	0.271
- Mass fraction of isobutane, %	GOST 10679-2019	18.27
- Mass fraction of n-butane, %	GOST 10679-2019	81.37
- Density at a temperature of 15 ° C, kg/m3	GOST 28656-2019	580.3

The net volume of the BT grade product is calculated based on the density of 15 °C  
 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

Stamp here

Specialist

/signature/  
 (signature)

I.I. Krylova  
 (surname, initials)

Certificate issue date: 20.10.2021.

Seal: