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Testing laboratory - PCL LLC RN - Komsomolsky Refinery  
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Certificate of accreditation of the testing laboratory no. ROSS RU. 0001. 22 NH 65

## CERTIFICATE No. 3323 Liquefied hydrocarbon fuel gas for municipal consumption, propane-butane technical (PBT) grade

Declaration of conformity: EAEU No. RU D-RU.NP 02.B.00495/19  
Valid until 07.07.2024



Designation of documents establishing fuel requirements:  
Technical Regulations of the Eurasian Economic Union "Requirements for Liquefied Petroleum Gases to use them as fuel" (TR EAEU 036/2016);  
GOST 20448-2018 "Liquefied petroleum fuel gases for municipal consumption. Specifications".  
OKPD 2 Code 19 20.31  
Batch number: 3323  
Date of manufacture: 06.12.2021  
Batch size (mass): 74.7 t  
Sampling location (according to GOST 14921): tank No. 534  
Date of sampling: 06.12.2021  
Test date: 06.12.2021  
The certificate was issued on the basis of the test report No. 3323 dated 06.12.2021.

No. Item No.	Name of the indicator	Testing method	The norm for the EAEU TR 036/2016	Norm according to GOST 20448	Actual value
1	Mass fraction of components, % - the amount of methane, ethane and ethylene	GOST 10679-2019	-	not standardized	0.07
	- the amount of propane and propylene			not standardized	95.99
	- the amount of butanes and butylenes			maximum 60	3.95
2	Mass fraction of hydrogen sulfide and mercaptan sulfur, % including hydrogen sulfide	GOST 22985-2017	maximum 0.013	maximum 0.013	0.0061
			maximum 0.003	maximum 0.003	0.0007
3	Saturated vapor pressure, excessive, at temperature + 45°C, MPa	GOST 28656-2019	maximum 1.6	maximum 1.6	1.5
4	Volume fraction of liquid residue at 20°C, %	item 9.2 and Appendix B GOST 20448-2018	maximum 1.8	maximum 1.6	Absence
5	Free water and alkali content	item 9.2 and Appendix B GOST 20448-2018	Absence	Absence	Absence
6	Density at 20°C, kg/m3	GOST 28656-2019	-	-	507.4

### Notes

— 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.

### Conclusion: liquefied hydrocarbon fuel gas for municipal consumption, propane-butane technical grade (PBT) meets the requirements:

— Technical Regulations of the Eurasian Economic Union TR EAEU 036/2016 "Requirements for liquefied petroleum gases for their use as fuel".  
— GOST 20448-2018 "Liquefied petroleum fuel gases for municipal consumption. Specifications".

### Information on the presence of an odorant:

— the gas does not contain

### odorant Additional information:

— Transportation and storage - according to GOST 1510;  
— safety data sheet No. RPB 74558829-19-57818. Valid until 30.07.2024.  
— manufacturer LLC "PN - Komsomolsk Refinery guarantees the compliance of liquefied petroleum fuel gas for municipal consumption, the propane-butane technical grade (PBT) with the requirements of the Technical Regulations of the Eurasian Economic Union "Requirements for liquefied carbon gases for their use as fuel" (EAEU TR 036/2016), GOST 20448-2018 "Liquefied petroleum gases for municipal consumption. Specifications" subject to the conditions of transportation and storage according to GOST 1510 for 6 months from the date of manufacture.

Stamp here

Shift supervisor of shop No. 3 (authorized on the basis of Order No. 1637 of 09.11.17)  
Certificate issue date:

/signature/

A.P. Kurashov

06.12.2021

Seal:

Limited Liability Company RN - Komsomolsk Oil Refinery  
Komsomolsk on Amur city, OGRN 1052740253558  
FOR CERTIFICATES

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