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Public Joint Stock Company Slavneft-Yaroslavnefteorgsintez
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 Russian Federation, 150023, Yaroslavl Region, Yaroslavl, Moskovsky Prospekt 130
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 Production address:
 Russian Federation, 150023, Yaroslavl Region, Yaroslavl, Moskovsky Prospekt 150
 Certificate of conformity of the quality management system ISO 9001:2015
 No. 20.1994.026, valid until 11.01.2024.

QUALITY CERTIFICATE No. 878

Hydrocarbon gases liquefied fuel grades propane-butane technical (PBT) according to GOST R 52087-2018

Declaration of Conformity of the EAEU No. RU D-RU.AB 04.B.02011/19
 Valid until 26.05.2022

Designation of documents that establish requirements for products:
 Technical Regulations of the Eurasian Economic Union "Requirements for liquefied Petroleum gases for their use as fuel" (EAEU TR 036/2016) (Decision of the Eurasian Economic Commission No. 68 of August 09, 2016) (Appendix) GOST R 52087-2018 "Liquefied petroleum gases. Specifications" OKPD Code 2 19.20.31



Batch number: 624
 Date of manufacture: September 30, 2021
 Batch size (mass): 39 t
 Sampling site (according to GOST 14921) E-133
 Date of sampling: September 30, 2021
 Test date: September 30, 2021

No.	Name of the indicator	Method method	The norm ACCORDING to of the EAEU TR 036/2016	Norm according to GOST R 52087-2018.	Actual value
1.	Mass fraction of components, %:	GOST 10679-2019	-	Not standardized Definition required	2.49
	- the amount of methane, ethane and ethylene		-		
	- the amount of propane and propylene		-		
	- the amount of butanes and butylenes		-		
2	Volume fraction of liquid residue at plus 20°C, %	As to item 8.2 GOST R 52087-2018	maximum 1.8	maximum 1.6	Absence
3	Saturated vapor pressure, excessive, MPa, at temperature plus 45°C	GOST 28656-2019	maximum 1.6	maximum 1.6	1.28
4	Mass fraction hydrogen sulfide and mercaptan sulfur, % including hydrogen sulfide, %	GOST 22985-2017	-	maximum 0.013 maximum 0.003	0.0057 less than 0.0002
			-		
			-		
5.	Free water and alkali content	As to item 8.2 GOST R 52087-2018	Absence	Absence	Absence
6	Odor intensity, Point	GOST 22387.5-2014	minimum 3	minimum 3	-

Additional requirements (contract, contract specification, delivery agreement, etc.)

No.	Name of the indicator	Method method	The norm under the contract, etc.	Actual value
1	Density at 15°C, kg/m3	GOST 28656-2019	-	524.5
2	Mass fraction of components, %:	GOST 10679-2019	-	64.94
			- Propane	-
			- propylene	-
			- the amount of butanes	-
- the amount of butylenes	-			

Item 6 - according to Note 2 of the Appendix of the EAEU TR 036/2016 and Note 2 of Table 2 of GOST R 52087-2018, it is allowed not to determine the intensity of the odor with a mass fraction of mercaptan sulfur in liquefied gases of 0.002% or more.

Conclusion: Liquefied petroleum fuel gas of the propane-butane technical grade (PBT) meets the requirements:

- EAEU TR 036/2016 "Requirements for liquefied petroleum gases for their use as fuel" (Decision of the Eurasian Economic Commission No. 68 of August 09, 2016) (Appendix)
- GOST R 52087-2018 "Liquefied petroleum fuel gases. Specifications"

Information on the presence of an odorant: Odorant is missing

Additional information: - transportation and storage according to GOST R 52087-2018 section 9;
 - the warranty period of storage is 6 months from the date of manufacture of the product.

Head of the Laboratory of Entrance Control and Gas Analysis
 Laboratory assistant

/signature/

S.V. Usanova

/signature/

Yu.V. Gurchenkova

Stamp here

Certificate issue date:

September 30, 2021

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 Yaroslavl city
 Laboratory (OTC)
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