Shkapovskoe Gas Processing Plant

Production address: Russian Federation, 452017, Republic of Bashkortostan, Priyutovo village

Production Laboratory

Russian Federation, 452017, Republic of Bashkortostan, Priyutovo village, tel. 8(34786)38-307

CERTIFICATE No. 2064

FRACTION OF NORMAL BUTANE TS 0272-026-00151638-99 with amendments 1, 2, 3, 4

Documents establishing requirements to products:

TS 0272-026-00151638-99 "Fraction of normal butane. Specifications" with amendments 1, 2, 3, 4

OKPD 2 Code: 19.20.31.120

Batch number: 2064 Filling date: 20.12.2021

Batch size (mass): 37.980 t of oil.

Place of sampling (according to GOST 14921): tank car No. 76608777

Date of sampling: 20.12.2021 Test date: 20.12.2021

No.	Name of the indicator	Test method	Norm according to TS 0272-026-00151638-99				The actual
			Grade Highest	Grade A	Grade B	Grade C	value
1.	Mass fraction of components, %:						
	- propane, max		0.3	0.5	1.0	1.0	< 0.01
	- isobutane, max	GOST 10679	0.9	1.5	4.0	Not standardiz ed	0.72
	- the amount of butylenes, max		0.5	1.0	1.0	2.0	0.49
	- normal butane, min		98.6	97.5	94.0	88.0	98.74
	- the amount of iso- and normal pentane and above, no more		0.4	0.6	2.5	5.0	0,05
2.	Mass fraction of hydrogen sulfide and mercaptan sulfur, %, max	GOST 22985	0.005	0.005	0.01	0.01	0.0011
3.	Free water and alkali content	Item 5.2 of TS 0272-026- 00151638-99	Absence				Absence
4.	Density at 15°C, kg/m ³	GOST 28656	Not standardized				584.5

Conclusion: The product quality corresponds to the Highest grade according to the requirements of TS 0272-026-00151638-99 "Fraction of normal butane. Specifications"

Additional requirements:

- transportation and storage shall be carried out according to the requirements of GOST 1510-84;
- the manufacturer (LLC Shkapovskoe CCI) guarantees that the quality of the product meets the requirements of TS 0272-026-00151638-99

within three months from the date of manufacture, subject to the consumer's conditions of transportation and storage; Safety Data Sheet No. 38504529.19.50395

Head of the production laboratory signature I.L. Tuchina
Stamp here Laboratory assistant signature L.N. Posashkova
Certificate issue date: 21.12.2021

Round seal: /Illegible /

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