СОРҮ



Joint Stock Company Novokuibyshevsky Oil Refinery Legal address and production address: Russian Federation, 446207, Samara region, Novokuibyshevsk, Osipenko str., 12, e-mail: <u>sekr@nknpz.rosneft.ru</u>. tel.: 8(84635) 6-12-38, tel.: 8(84635) 3-44-12

Certificate of conformity of the Quality Management System to the requirements of ISO 9001:2015 No. 31100542 QM15; certificate validity period: until 02.09.2024

Testing laboratory - Plant Central Lab (PCL) Russian Federation, 446207, Samara region, Novokuibyshevsk, Osipenko str., 12, Joint Stock Company Novokuibyshevsky Oil Refinery e-mail: sekr@nknpz.rosneft.ru. tel.: 8(84635) 6-12-38, tel.: 8(84635) 3-41-80

CERTIFICATE No. 6 640 Broad fraction of light hydrocarbons (NGLs), grade B, TSU 38.101524-2015

Documents establishing requirements to products: TS 38.101524-2015 "Broad fraction of light hydrocarbons. Specifications". OKPD 2 Code: 19.20.32 Batch number: 6 640 Date of manufacture: 01.12.2021 Batch size (mass): 23.253 t (volume¹⁾) 40 071 l Sampling site (according to GOST 14921-2018): Tank No. 233 Date of sampling: 01.12.2021

Test date: 01.12.2021

The certificate was issued on the basis of the test report: No. 6 640/3 dated 01.12.2021

Nº	Name of the indicator, unit of measurement	Testing method	Norm according to TS 38.101524-2015	The actual value
1	1. Mass fraction of components, %: - the amount of C1-C2 hydrocarbons	GOST 10679-2019	maximum 5.0	minimum 0.005
	including: - methane - ethane - propane		Not standardized Not standardized Not standardized	Less than 0.005 Less than 0.005 0.121
	the amount of C_4 - C_5 hydrocarbons including:		minimum 40.0	99.8
	- the amount of C ₄ hydrocarbons		not standardized Definition required	99.8
	- the amount of C₅ hydrocarbons		not standardized Definition required	0.022
	- the amount of C6 hydrocarbons and higher		maximum 30.0	Less than 0.010
2	2. Mass fraction of methanol, %			
3	3. Mass fraction of hydrogen sulfide and mercaptan sulfur, % - including hydrogen sulfide	GOST 22985-2017 GOST 22985-2017	maximum 0.05 maximum 0.003	0.00122 Less than 0.0002
4	4. Free water and alkali content	TS 38.101524-2015, item 5.3	Absence Definition required	Absence
5	5. Overall view	TS 38.101524-2015, item 5.4	colorless transparent liquid	colorless transparent liquid
	Density at 20°C, kg/m ³	GOST 28656-2019	not standardized Definition required	574.6
	Density at 15°C, kg/m ³ (t/l)	GOST 28656-2019	Not standardized	580.3 (0.0005803)

¹⁾ the NET volume (liters) of the product is calculated based on the density at 15°C,

Conclusion: The broad fraction of light hydrocarbons (NGLs) of grade B meets the requirements: - TS 38.101524-2015 "Broad fraction of light hydrocarbons. Specifications".

Additional information:

- the manufacturer of JSC SNPZ guarantees that the quality of a wide fraction of light hydrocarbons meets the requirements of TS 38.101524-2015, subject to transportation and storage according to GOST 1510-84 within 3 months from the date of manufacture; - safety data sheet RPB No. 05766586.19.66329. Valid until 16.02.2026



Shift supervisor of shop No. 4_ dated

signature

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Certificate issue date: 01.12.2021