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РОСНЕФТЬ

Joint Stock Company Kuibyshev Oil Refinery  
Legal address: Russian Federation, 443004, Samara, Groznenskaya str., 25  
e-mail: sekr@snpz.rosneft.ru , tel.: 846 – 307 32 18

ISO 9001:2015 Quality Management System Certificate No. 31100475 QM15  
The certificate is valid until 17.08.2024.

Testing Center - Plant Central Lab (PCL)  
443004, Samara, Groznenskaya Str., 25  
Joint Stock Company Kuibyshev Oil Refinery  
e-mail: sekr@snpz.rosneft.ru , tel.: 846 – 307 32 18

**CERTIFICATE No. 3 405**

**Broad fraction of light hydrocarbons (NGLs),  
B Grade TS 38.101524-2015**

Designation of documents establishing fuel requirements:

TS 38.101524-2015 "Broad fraction of light hydrocarbons. Specifications"

OKPD Code 2 -19. 20. 32

Batch number: 3405

Date of manufacture: 30.11.2021

Batch size (mass): 92.00 t

Sampling location (according to GOST 14921-2018): bullet 1 020

Filling level: 256.50 cm.

Date of sampling: 30.11.2021

Test date: 30.11.2021 - 01.12.2021

The certificate was issued on the basis of the test report: No. 5824, 5825 dated 01.12.2021.

No.	Name of the indicator	Testing method	Norm according to TS 38.101524-2015	Actual value
1	Mass fraction of components, %: the amount of C <sub>1</sub> -C <sub>2</sub> hydrocarbons including: methane ethane propane the amount of C <sub>4</sub> -C <sub>5</sub> hydrocarbons including: the amount of C <sub>4</sub> hydrocarbons the amount of C <sub>5</sub> hydrocarbons  the amount of C <sub>6</sub> hydrocarbons and higher	GOST 10679-2019	maximum 5 not standardized not standardized not standardized minimum 40 Not standardized Definition required. Not standardized Definition required. maximum 30	0.543 0.028 0.51 15.9 83.460 83.062  0.398  Less than 0.01
2	Mass fraction of methanol, %	GOST R 54484-2011. (Method B)	maximum 0.15	Less than 0.001
3	Mass fraction of hydrogen sulfide and mercaptan sulfur, % including hydrogen sulfide	GOST 22985-2017	maximum 0.05 maximum 0.003	0.0070 Less than 0.0002
4	Free water and alkali content	item 5.3 TS 38.101524-2015	Absence Definition required.	Absence
5	Overall view	item 5.4 TS 38.101524-2015	colorless transparent liquid	colorless transparent liquid
6	Density at 20°C, kg/m <sup>3</sup>	item 4 GOST 28656-2019	not standardized Definition required.	559.0
<b>Additional information (item 1 letter of JSC KNPZ ref. No. 02-12/742 dated 30.12.2016, item 2 of the Tax Code of the Russian Federation Article 181 item 1 sub-item 11)</b>				
No.	Name of the indicator	Testing method	Norm	Actual value
1	Mass fraction of unsaturated hydrocarbons	GOST 10679-2019	maximum 0.50	0.113
2	The aggregate state at a temperature of 20°C and a pressure of 760 mm Hg.	Visually	-	Gaseous state

**Conclusion:** Broad fraction of light hydrocarbons (NGLs), grade B, TS 38.101524-2015

**meets the requirements:** TS 38.101524-2015 "Broad fraction of light hydrocarbons. Specifications" for grade B. The fraction of broad light hydrocarbons (NGLs), grade B in accordance with sub-item 11, item 1 of Article 181 of the Tax Code of the Russian Federation is not an average distillate.

**Additional Information:**

- labelling, packing, transportation and storage according to GOST 1510-84.

- the manufacturer of JSC KNPZ guarantees that the quality of the broad Fraction of light hydrocarbons (NGLs), grade B meets the requirements of TS 38.101524-2015 "Broad fraction of light hydrocarbons. Specifications" subject to the conditions of transportation and storage according to GOST 1510-84 for 3 months from the date of manufacture.

Stamp here  
(Stamp of the enterprise)

**STANDART**

Shift supervisor of shop No. 10 \_\_\_\_\_ I.M. Kushnareva  
(Power of attorney No. 21 dated 01.01.2021)

Certificate issue date: 01.12.2021



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