



Joint Stock Company Syzran Oil Refinery
Legal address and production address:
Russian Federation, 446029, Samara region, Syzran, Astrakhanskaya str., 1
e-mail: sekr@snpz.rosneft.ru, tel.: 8(8464) 98-81-10

Certificate of quality management system for compliance with the requirements of
ISO 9001:2015 No. RU003488 Certificate validity period: until 17.08.2024

Oil and Petroleum Products Testing Center of an oil refinery
446029, Samara region, Syzran, Astrakhanskaya str., 1
Joint Stock Company Syzran Oil Refinery
e-mail: sekr@snpz.rosneft.ru, tel.: 8(8464) 98-81-10

CERTIFICATE No. 6 448

**Fraction butane-butylene grade B
TS 0272-027-00151638-99**

Designation of documents establishing fuel requirements:
TS 0272-027-00151638-99 "Butane-butylene fraction.
Specifications"
OKPD Code 2 - 19.20.31
Batch number: 6 448
Date of manufacture: 01.10.2021
Batch size (mass): 37.700 t
(volume¹⁾): 63.747 l.
Sampling site (according to GOST 14921-2018): In/c No. 57 820 169
Date of sampling: 01.10.2021
Test date: 01.10.2021
The certificate was issued on the basis of the test report: No. 6448/3 dated 01.10.2021.

No.	Name of the indicator	Testing method	Norm	Actual value
1	Mass fraction of components, %: the amount of C ₃ hydrocarbons the amount of butylenes the amount of C ₅ hydrocarbons and higher	GOST 10679-2019	maximum 3.0 minimum 35.0 maximum 3.0	0.49 36.7 Less than 0.010
2	Mass fraction of hydrogen sulfide and mercaptan sulfur, %	GOST 22985-2017	maximum 0.02	0.0068
3	Free water and alkali content	item 5.2 TS 0272-027-00151638-99	Absence	Absence
	Density at 20 °C, kg/m ³	GOST 28656-2019	Not standardized	585.6
	Density at 15 °C, kg/m ³ (t/l)	GOST 28656-2019	Not standardized	591.4 (0.0005914)

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

Conclusion: Butane-butylene fraction, grade B **meets the requirements:**

- TS 0272-027-00151638-99 "Butane-butylene fraction. Specifications"

Additional information:

- the manufacturer of JSC KNPZ guarantees that the quality of the butane-butylene fraction meets the requirements of TS 0272-027-00151638-99, subject to the conditions of transportation and storage according to GOST 1510-84 within 3 months from the date of manufacture.

- safety data sheet RPB No. 05766586.19.52157 Valid until 05.07.2023.

STANDARD

Shift Supervisor (production No. 4 _____)
(Power of Attorney no. _____ dtd _____) signature

Certificate issue date 02.10.2021

Manufacturer:
 Joint Stock Company Syzran Oil Refinery
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 ISO 9001:2015 Quality Management System Certificate No. RU003488



Appendix to certificate No. 6 448

**Fraction butane-butylene grade B
 TS 0272-027-00151638-99**

Item No.	Designation of a legislative act, regulatory document or set of rules	Information required for the product description		
		Name of the indicator	Testing method	Actual value
1	CUCC FEA (Letter No. SZ-73-80672 dated 14.08.2014)	Mass fraction of propane, %	GOST 10679-2019	0.49
		Mass fraction of propylene, %		Less than 0.010
		Mass fraction of i-butane, %		16.3
		Mass fraction of n-butane, %		46.6
2	Tax Code of the Russian Federation, Article 181, item 1, sub-item 11	The aggregate state at a temperature of 20 °C and a pressure of 760 mm Hg.	visually	gas
		Processing name	Not standardized	591.4 (0.0005914)

Shift Supervisor (production No. 4 _____
 (Power of Attorney no. _____ dtd _____) signature _____

