



JSC Ryazan Refining Company
Legal address and production site address:
Russian Federation, Ryazan city
390011, Ryazan, Southern Promuzel District, 8
e-mail: RNPk@mpk.rosneft.ru, tel.: +7 (4912) 93-32-40, fax: +7 (4912) 93-30-84
ISO 9001:2015 Quality Management System Certificate No. 31100440 QM15
Certificate validity period: through 29.06.2024

QUALITY CERTIFICATE NO. 29823
Naphta for rubber industry
Petroleum solvent NEFRAS-C2-80120
premium quality

Document establishing product specifications:
TU 38.401-67-108-92, Naphta for rubber industry. Technical specifications
OKPD 2 Code 19.20.23.129
Batch number: 29823
Date of manufacture: 29.12.2021
Batch size (mass): 265 t
Sampling location (according to GOST 2517-2012): tank No. 147
Filling level: 2120 mm
Date of sampling: 29.12.2021
Test date: 29.12.2021
The tests were performed: Shop No. 10 Testing Laboratory -
Central Factory Laboratory
The certificate was issued based on the quality analysis dd 29.12.2021 No. 11770

Item No.	Indicator	Testing method	Standard according to GOST 9572-93	Actual value
1	Density at 20 °C, g/cm ³	GOST 3900-85	no more than 0.700	0.6860
2	Fractional composition: - Initial boiling point, °C - 98 % (vol.) distilled at a temperature, °C - residue in the bottle after fractionation, %	GOST 2177-99 (method A)	not lower than 80 not higher than 100 no more than 1.0	84.5 93.5 0.9
3	Bromine number, g of bromine per 100 cm ³ of naphta	TU 38.401-67-108-92 p. 3.2	no more than 0.08	0.018
4	Mass fraction of aromatic hydrocarbons, %	TU 38.401-67-108-92 p. 3.3	no more than 1.5	below 1.0
5	Test for grease oil spot formation	TU 38.401-67-108-92 p. 3.4	withstands the test	withstands the test
6	Mass fraction of sulfur, %	GOST 13380-81	no more than 0.001	0.00003
7	Content of water soluble acids and bases	GOST 6307-75	absent	absent
8	Content of mechanical impurities and water	TU 38.401-67-108-92 p. 3.5	absent	absent
9	Content of tetraethyl lead*	GOST 7978-74	absent	-

* Not determined. The process guarantees the absence of tetraethyl lead

Conclusion: Naphta for rubber industry Premium NEFRAS-C2-80/120 **meets the specifications of:**

TU 38.401-67-108-92, Naphta for rubber industry. Technical specifications

Additional Information:

- marking, transportation and storage - according to GOST 1510-84;
- the warranty period of storage is 5 years from the date of manufacture.

L.S.

Shift process engineer, shop No. 11
(Power of attorney No. 381 dated 18.12.2020)
Certificate issue date 29.12.2021 16:14

signature

D.A. Glebov