



JSC Ryazan Refining Company
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ISO 9001:2015 Quality Management System Certificate No. 31100440 QM15
Certificate validity period: through 29.06.2024

QUALITY CERTIFICATE NO. 29362 Petroleum solvent (nefras) P1-63/75

Document establishing product specifications:

TU 38.1011228-90 "Hexane solvents. Technical specifications.

OKPD 2 Code 2 19.20.23.129

Batch number: 29362

Date of manufacture: 13.12.2021

Batch size (mass): 898 t

Sampling location (according to GOST 2517-2012): tank No. 150

Filling level: 7250 mm

Date of sampling: 13.12.2021

Test date: 13.12.2021 The tests were performed: Shop No. 10 Testing Laboratory -

Central Factory Laboratory

The certificate was issued based on the quality analysis dd 13.12.2021 No. 11241

Item No.	Indicator	Test method	Standard according to GOST 9572-93	Actual value
1	Density at 20 °C, g/cm ³	GOST 3900-85	no more than 0.685	0.6745
2	Fractional composition - initial temperature of fractionation, °C - temperature of fractionating 98% of the sample, °C - residue in the bottle, %	GOST 2177-99 (method A)	not lower than 63 not higher than 75 no more than 1.0	64.0 73.0 0.9
3	Bromine number, g of bromine per 100 cm ³ of the solvent	TU 38.1011228-90 p. 5.2	no more than 0.06	0.021
4	Mass fraction of benzene, %	TU 38.1011228-90 p. 5.3	no more than 0.1	0.04
5	Mass fraction of sulfur, %	GOST 13380-81	no more than 0.00020	0.00003
6	Availability of water soluble acids and bases	GOST 6307-75	absent	absent
7	Content of mechanical impurities and water	TU 38 1011228-90 p. 5.5	absent	absent

Conclusion: Petroleum solvent P1-63/75 **meets the specifications**

- TU 38.1011228-90 "Hexane solvents. Technical specifications".

Additional Information:

- marking, transportation and storage - according to GOST 1510-84;

- The warranty period of storage is 2 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 13.12.2021 08:09

D.A. Glebov

signature