



QUALITY CERTIFICATE NO. 28
Liquid pyrolysis products fractions 35-230 °C and 35-270 °C
Grade E-3
TU 2451-178-72042240-2006 with amendments No. 1-6

EXPORT

Date of manufacture	15.12.2021	Product vessel No.	11/1
Date of sampling	15.12.2021	Net weight	54.800 t
Test date	15.12.2021	Rail tank car No.	53926838

The tests were carried out at the Test Center - Quality Control Department of JSC NNK

Certificate of accreditation No. ROSS RU.0001.515720 Date of information entry into the register of accredited entities July 29, 2015.

Item No.	Indicator	Standard	Actual	Test method
1	Overall view	Light yellow to dark brown liquid with no mechanical impurities	Brown liquid with no mechanical impurities	GOST 2706.1-74 p.1
2	Density at 20 °C, g/cm ³	no less than 0,750	0,7897	GOST 3900-85 p.1
3	Fractional composition 3.1 Initial boiling point. °C 3.2 Final boiling point	not lower than 25 not higher than 300	27 242	GOST 2177-99 with amendm. 1 Method B
4	Mass fraction of aromatic hydrocarbons C ₆ -C ₈ in distillation yield under 185 °C, %	no less than 60	58	TU 2451-178-72042240
5	Mass fraction of benzene, %	no less than 30	22	2006 p. 5.6
6	Mass fraction of water, %	no more than 1	0.63	GOST-2477-2014

Conclusion: Liquid pyrolysis PRODUCTS fractions 35-230 °C and 35-270 °C Grade E-5, meet the specifications of:

- TU 2451- 178-72042240-2006 with amendments No 1-6

P. 4.5 to be agreed by the consumer

The manufacturer guarantees the product quality conformance with this standard, subject to meeting the terms of transportation and storage.

Warranty period of storage: 1 month from the date of manufacture.

L.S. Specialist _____ /signature/
/seal /Russian Federation* Samara Region* (signature)
Novokuibyshevsk , Joint Stock Company "Novokuibyshevsk Petrochemical
Company "
For documents*/

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last name, initials)

Certificate issue date 20.12.2021