

Joint Stock Company "Novokuibyshevsk Petrochemical Company"

Russian Federation, Samara region, Novokuibyshevsk

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ROSNEFT

EXPORT

QUALITY CERTIFICATE NO. 6
LIQUID PYROLYSIS PRODUCTS
35-230 °C and 35-270 °C FRACTIONS
TU 2451-178-72042240-2006 with amendments No. 1-4
E-1 Grade

EXPORT

Date of manufacture 11.02.2018

Net weight, t 58,150

Date of sampling 11.02.2018

Rail tank car No. 52020179

Test date 11.02.2018

Product vessel No. 10/1

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

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

Indicator	Standard	Actual	Testing method
1 Overall view	Light yellow to dark brown liquid with no mechanical impurities	Yellow liquid with no mechanical impurities	GOST 2706.1
2 Density at 20°C, g/cm ³	no less than 0,780	0.792	GOST 3900
3 Fractional composition:			
3.1 initial boiling point*, °C	not lower than 25	30	GOST 2177
3.2 final boiling point, °C	not higher than 330	168	
4 Mass fraction of aromatic hydrocarbons C ₆ -C ₈ in distillation yield under 185 °C, %	no less than 45	60	TU 2451-17872042240-2006 with amendments 1-4, p. 5.6
5 Mass fraction of benzene, %	no less than 8	30	
6 Mass fraction of water, %	no more than 1.	0.6	GOST 2477

The product meets the specifications of TU 2451-178-72042240-2006 with amendments 1-4 grade E-1

The warranty period of fractions storage is 1 month from the date of manufacture

Specialist

/signature/

R.A. Maksimenkova

(signature)

(initials, last name)

Certificate issue date: 12.02.2018

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