



**PJSC UFAGEOSINTEZ**

450037, Russian Federation, Republic of Bashkortostan, Ufa

Quality Management Division. Test Center of Petrochemical Products, Raw Materials and Objects of Ecological Interest

Unique Record Number in the Register of Accredited Entities No. RA.RU.21УФ03

Laboratory for feedstock and commercial products quality control



**QUALITY CERTIFICATE No. 214-2021**  
**LIQUID PYROLYSIS PRODUCTS FRACTIONS 35-230 °C and 32-320 °C**  
**TU 2451-075-05766563-2004 with amendments 1-4**

**Grade** Grade E-5 **OKPD 2 Code** 20.14.73.190  
**Date of manufacture** 31.12.2021 **Net weight** 1540.000 t  
**Test date** 31.12.2021  
**Capacity** 2/11 [ed. 11-19a]

**Regulatory document, according to which the sample was taken** GOST 2517

Item No.	Indicator	RD for the test method	TU Standard	Established via the analysis results
1	Overall view	TU 2451-075-05766563-2004 with amendments 1-4 p.5.3	Light yellow to dark brown liquid with no mechanical impurities	Yellow liquid
2	Mechanical impurities		absence	absence
3	Density at 20 °C, g/cm <sup>3</sup>	GOST 3900-85 with amendm. 1 p.1 TU 2451- 075-05766563-2004 with amendments 1-4 p.5.4	no less than 0.790	0.850
4	Fractional composition: Initial boiling point*, °C Final boiling point, °C	GOST 2177-99 with amendm. 1 TU 2451- 075-05766563-2004 with amendments 1-4 p.5.5	not lower than 35 not higher than 230	40 187
5	Mass fraction of aromatic hydrocarbons C <sub>6</sub> -C <sub>8</sub> in distillation yield under 185 °C,	TU 2451- 075-05766563-2004 with amendments 1-4 p.5.6	no less than 58	74
6	Mass fraction of benzene, %		no less than 30	41
7	Mass fraction of water, %	GOST 2477-2014 with amendm. 1.2 TU 2451- 075-05766563-2004 with amendments 1-4 p. 5.7	no more than 0,5	absent

**Conclusion: the product meets the technical specifications of GOST 2451-075-05766563-2004, with amendm.1-4.**

**Not under mandatory certification**

The products are manufactured in accordance with the Management systems certified for compliance with the specifications of: ISO 9001:2015 certificate No. 31100600 QM15. ISO 50001:2018 Certificate No. 31100600 EMSt 18, ISO 14001:2015 Certificate No.31100600 UM15. ISO 45001 2018 certificate No. 31100600 OHS 18.

**Area of application:** used as feedstock for the production of motor and boiler fuel components, as feedstock for the production of aromatic hydrocarbons

**Fire and explosion characteristics:** category and group of explosiveness of liquid pyrolysis products vapor mixed with air - II A according to GOST R 30852.11 2002 - 30852.5-2002 and T1 according to GOST R 30852.5-2002, respectively.

**Transportation rules:** to be transported in accordance with the Rules of cargo transportation by rail in bulk tank cars and hopper cars for oilbitumen transportation, approved by the Minutes of the Railway Transport Council of CIS Member States dd May 21-22, 2009 № 50.

**Storage rules:** metal tanks are used according to the storage rules for flammable liquids similar to petroleum aromatics according to GOST 1510.

**Waste decontamination, disposal and burial:** in order to eliminate leaks and spills, pre-mix (fill) the spilled product with sand or any other inert material, collect it into containers in good order, seal them hermetically and send them out for disposal observing precautionary measures;

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

5th grade laboratory analyst  
(power of attorney No. 34/21 dated 01.01.21)

L.S.

Date of certificate documentation 31.12.2021

/sign/

L.G. Mukhutdinova

/ seal/ Public joint stock company "Ufaorgsintez" / \* Quality management division 3/2 /