



РОСНЕФТЬ

The quality management system complies with the requirements of ISO 9001:2008,
certificate 31100440 QM 08, valid until June 30, 2018

CERTIFICATE No. 16496

isobutane fraction of the highest grade

- TS 0272-025-00151638-99 with amendments No. 1, 2
- OKP 02 7234

Test report No.: 6497
Batch No. 16496
Capacity E-42
Quantity: 75 m³
Date of manufacture: 30.07.2016
Date of sampling: 30.07.2016
Test date: 31.07.2016

The tests were carried out in the Testing Laboratory of JSC RNPC.
Certificate of accreditation No. RA.RU.21HK40, date of entry of information into the register of accredited entities 27.01.2015

No. Item No.	Name of the indicator	Test method	Norm according to TS 0272-025-00151638-99	Actual value
1	Mass fraction of components, %: the amount of C1-C2 hydrocarbons propane isobutane the amount of butylenes Normal butane the amount of C5 hydrocarbons and higher * propylene * the amount of butanes	GOST 10679	Not standardized maximum 1.3 minimum 98.0 maximum 0.5 maximum 0.7 Absence	0.00 0.24 99.20 0.06 0.30 Absence 0.20 99.50
2	Mass fraction of hydrogen sulfide and mercaptan sulfur, %	GOST 22985	maximum 0.005	0.0000
3	Free water and alkali content	Acc.to item 5.2 of these TS (tech specs)	Absence	Absence

* determination of indicators for the purpose of identification and classification of liquefied petroleum gases in accordance with the Customs Union Commodity Classification of Foreign Economic Activity (Letter No. C3-73-80672 dated 14.08.2014).

Conclusion: The isobutane fraction of the highest grade conforms;
* TS 0272-025-00151638-99 with amendments No. 1, 2

Additional Information:

- * The products are manufactured under the control established in the Quality Management System conforming to the requirements of ISO 9001:2008, certificate 31100440 QM08; Environmental management system conforming to the requirements of ISO 14001:2004 + Cog 1:2009, certificate 31100440 UM; Energy management system conforming to the requirements of ISO 50001:2011, certificate 31100440 EMSt; Occupational safety and Health Management System conforming to the requirements of BS OHSAS 18001:2007, certificate 31100440 BSOH.
- * Sampling according to GOST 14921.
- * Marking, transportation and storage - according to GOST 1510.
- * The warranty period of storage is 3 months from the date of manufacture

Shift Engineer-Technologist of shop No. 11 signature E.V. Shvedova
(power of attorney No. 768 dated 21.12.2015)
Certificate issue date: 31.07.2016 00:19

Round stamp:
/ Joint Stock Company Ryazan Oil Refinery
Ryazan Workshop No. 11 COMMODITY and RAW MATERIALS/

Rectangular stamp: / Illegible
JSC RMPK THE COPY IS CORRECT illegible Signature
Z.A. Akulova/



Appendix to Certificate No. 16496 dated 31.07.2016

Isobutane fraction
the highest grade
TS 0272-025-0615163YA-99

Nos. Item No.	Designation of a legislative act, regulatory document or set of rules	Information required for the product description		
		Name of indicator	Test method	Actual value
1	Tax Code of Ukraine	Density at 15°C, kg/m ³	GOST 28656	563

Shift Engineer-Technologist of shop No. 11 signature E.V. Shvedova