



UFAORGSINTEZ PJSC
450037, Russian Federation, Republic of Bashkortostan, Ufa city
Quality Management. Testing Center for Petrochemical Products, Raw Materials and
Environmental facilities
The unique number of entries in the register of accredited entities No. RA.RU.21UFOZ
Laboratory for quality control of raw materials and commercial products



CERTIFICATE No. 382-2021

**BUTYLENE-BUTADIENE FRACTION
TS 2411-088-05766563-2011**

Grade B Grade **OKPD Code 2** 19.20.32.113
Date of manufacture 31.12.2021
Test date 31.12.2021
Capacity 216 [ed. PUS]
**The designation of the RD,
according to which the sample was taken** GOST 14921

Item No.	Name of the indicator	MD on the test method	Norm for grade B according to TS 2411-088-05766563- 2011	Established by analysis
1	Mass fraction of C ₄ hydrocarbons, %	TS 2411 -088-05766563-2011, item 5.3	minimum 98	99.4
2	The mass fraction of butadiene - 1.3, %		minimum 30	34
3	The mass fraction of hydrocarbons amount up to C ₃ inclusively and C ₃ and higher, %		maximum 1.5	0.6
4	Operating temperature, °C	GOST 28656-2019	not standardized	-10
5	Density at operating temperature, kg/m ³			634.0

Conclusion: the product complies with TS 2411-088-05766563-2011

Not subject to mandatory certification.

The products are manufactured under the management of Management Systems certified for compliance with the requirements: ISO 9001:2015 Certificate No. 31100600 QM 15, ISO 50001:2018 Certificate No. 31100600 EMSt 18, ISO 14001:2015 certificate No. 31100600 UM15, ISO 45001:2018 certificate No. 31100600 OHS18.

Scope of application: used as a raw material in the production of synthetic rubber.

Characteristic of fire and explosion hazard: a mixture of liquefied combustible gases with a boiling point from minus 4 to 0°C; ignites from sparks and flames; forms explosive mixtures with air in open areas, as well as in empty containers after a pressure drop; containers can explode when heated.

Transportation rules: it is transported in special railway tanks for liquefied petroleum gases in accordance with the rules for the carriage of goods by rail in bulk in tank wagons and bunker-type wagons for the transportation of petroleum bitumen, GOST 1510 (similar to hydrocarbon liquefied fuel gases), the rules for the design and safe operation of pressure vessels, safety rules in the gas industry (approved by Rostekhnadzor RF); the use of tanks from under other gases for filling fractions is prohibited.

Storage rules: in accordance with GOST 1510, high-pressure metal tanks can be used for storage; avoid overheating, impacts on tanks (both full and empty); incompatible substances during storage - oxidizers, toxic gases.

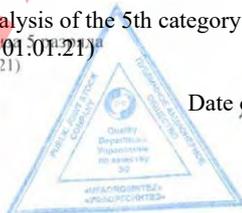
Neutralization, disposal and disposal of waste in case of a small leak - eliminate the leak in compliance with precautionary measures; in case of intensive leakage - in agreement with the EMERCOM specialists, after determining the gas contamination zone, evacuating people and assessing the possible consequences of volumetric ignition of the gas-air mixture, ignite the escaping gas and let it burn out under the control of water jets; isolate the area until the gas dissipates, do not touch the substance; dump the spill site, do not allow the substance to enter reservoirs.

Warranty period of storage: 3 months from the date of manufacture

Laboratory assistant of chemical analysis of the 5th category signature
(power of attorney No. 34/21 dated 01.01.21)²¹⁾

E.A. Volkova

Stamp here



Date of certificate registration 31.12.2021