



QUALITY CERTIFICATE No. 2

Non-hydrogenated butylene-butadiene fraction B Grade TS 2411-182-7204224-2011 with amendment 1

Date of manufacture 11.03.2021 **NET weight:** 47.500 t
Date of sampling: 11.03.2021 **Rail tank car No.** 76696145
Test date: 11.03.2021

The tests were carried out at the Testing Center - Quality Control Department of NNK JSC
Certificate of accreditation No. ROSS RU.0001.515720 Date of entry of information into the register of accredited entities July 29, 2015.

No. Item No.	Name of the indicator	Norm	Actually	Testing method
1	Mass fraction of C ₄ hydrocarbons, %	minimum 98	Less than 90.0	TS 2411-182-7204224-2011, item 5.3.1
2	The mass fraction of butadiene - 1.3, %	minimum 30	22.2	
3	Mass fraction of hydrocarbons up to and S ₃ inclusive, % Mass fraction of hydrocarbons C ₅ and higher, %	In total, maximum 1.5	11.1	

Conclusion: The fraction of butylene-butadiene non-hydrogenated B Grade meets the requirements:

TS 2411-182-7204224-2011 with amendment 1
in agreement with the consumer according to item 1, 2, 3

The manufacturer guarantees that the product quality meets the requirements of this standard, subject to the conditions of transportation and storage.

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

Stamp here Specialist /Signature/ E.I. Egorova
(signature) (surname, initials)

Certificate issue date: 18.03.2021

Round stamp:
/ Russian Federation*
Samara Region*
Novokuibyshevsk city
Novokuibyshevsk Petrochemical Company Joint Stock Company
For documents/