



Joint Stock Company "Novokuybyshevsk Oil Refinery"

Legal address and place of production:

Russian Federation, 446207, Samara region, city of Novokuybyshevsk, Osipenko St., 12

e-mail: sekr@nknz.kisneft.ru, t/f 8(84635) 6-12-38, t. 8(84635) 3-44-12

Certificate of conformity of the Quality Management System to the requirements of ISO 9001: 2015 No. 31100542 Q.M15; certificate validity: until 02.09.2021

Central Plant Laboratory (Testing Laboratory)

Russian Federation, 446207, Samara region, city of Novokuybyshevsk, Osipenko St., 11

Novokuibyshevsk plant of oils and additives, Limited liability company

e-mail: sekr_top@nzmp.rosneft.ru, t. 8(84635) 3-41-29

CERTIFICATE No. 2474

Contact Technical Sulfuric Acid, Grade 1

Designation of documents establishing requirements for products:

GOST 2184-2013 "Technical sulfuric acid. Technical Specifications"

OKPD 2 code: 20.12.24.122

Batch No.: 155

Date of production: 13.08.2020

Size (weight) of the batch: 718.7 t

Place of sampling (under GOST 2184): Tank No.501/4

Filling level: 744 cm

Sampling date: 13.08.2020

Date of testing: 13.08.2020

The certificate is issued on the basis of test report No6-155s. No.6-155/1s of 13.08.2020

Indicator name, measurement units	Test method	Standard under GOST 2184-2013	Actual value
1. Mass fraction of monohydrate (H ₂ SO ₄), %	GOST 2184-2013 cl. 7.3	Not less than 92.5	92.5
2. Mass fraction of ferrum (Fe), %	GOST 2184-2013 cl. 7.4	0.02 max	0.01
3 Mass fraction of the residue after calcination,%	GOST 2184-2013 cl. 7.5	0.05 max	0.02
4 Mass fraction of nitrogen oxides (M ₂ O ₃), %	GOST 2184-2013 cl. 7.6	Not standardized	0.002
5 Transparency	GOST 2184-2013 cl. 7.11	Not standardized	Complies
6. Color in cm ³ of the comparison solution	GOST 2184-2013 cl. 7.12	6.0 max	1.0

Cl. 1 - Note No. 3 GOST 2184:

between April 15 and November 1, it is allowed to supply contact technical and regenerated sulfuric acids produced by the wet catalysis method with a mass fraction of monohydrate of at least 90%.

Cl. 5 - the acid is considered to meet the requirements of GOST 2184-2013 Cl. 7.11 if all contours are clearly visible.

Cl. 6 - Note No. 9 GOST 2184:

it is allowed in contact technical sulfuric acid of grade 1, produced in wet catalysis units and in units where acidic tars of petrochemical industries are used as feedstock, the color is from pink to violet.

Conclusion: Contact technical sulfuric acid, grade 1 is compliant with the requirements:

- GOST 2184-2013 "Technical sulfuric acid. Technical Specifications"

Additional information:

-transportation and storage: according to GOST 2184.

- warranty shelf life - 1 month from the date of shipment;

- Safety Data Sheets RPB No. 05766600-20-50526 is valid until 06.03.2021;

-products are manufactured under the control established in the Quality Management System certified by DQS (LLC "DEQUES") and meeting the requirements of ISO 9001: 2015 (permissible exceptions to clause 8.5.1 (h) in terms of delivery and actions after delivery of products).