



RN-Komsomolsky Oil Refinery LLC
Legal address and place of production:
681007, Khabarovsk Territory, Komsomolsk-on-Amur, st. Leningradskaya, 115
e-mail: knpz@kms.rosneft.ru, t/f 8(4217) 22-70-25

Testing laboratory- PCL LLC RN - Komsomolsky Refinery
Russia, 681007, Khabarovsk Krai, Komsomolsk-on-Amur, Leningradskaya str., 115
e-mail: knpz@kms.rosneft.ru, tel. 8(4217) 22-70-25
Certificate of accreditation of the testing laboratory no. ROSS RU.0001.22 HX 65

QUALITY CERTIFICATE No. 587
Anode grade petroleum coke (TU 0258-080-99418673-2008 with amendment 1)
brand "STO 74558829-0308-2021", type III

Designation of documents establishing fuel requirements:

TU 0258-080-99418673-2008 "Anode coke. Specializations"

STO 74558829-0308-2021 "Oil coke Specifications".

OKPD2 code 19.20.21.111

Batch number: 587

Date of manufacture: 03.02.2022

Batch size (mass): 595.176 t

Date of sampling: 03.02.2022

Test date: 04.02.2022

The certificate was issued on the basis of the test report No. 587 dated 04.02.2022.

Item No.	Name of the indicator	Testing method	Industry standard 74558829-0308- 2021 standard value	The actual value		
1.	Mass fraction of volatile substances, %	GOST-22898-78	not more than 9.0	9.0		
2.	Mass fraction of total moisture, %	GOST 27588-2020, (ISO 579:2013)	not more than 10*	10.0		
3.	Ash content	GOST-22692-77	not more than 0.6	0.11		
4.	III type Mass fraction of sulfur, %	GOST-1437-75	not more than 3.0	1.56		
5.	Actual density after calcination at 1,300 °C for 5 hours, g/cm ⁵	GOST-22898-78	2.08-2.13	2.11		
6.	Mass fraction, %:	GOST-22898-78	not more than 0.05	0.03		
	■ silicon				not more than 0.05	0.01
	■ ferrum					
■ vanadium						
7.	Mass fraction of small items (pieces smaller than 8 mm), %	GOST-22898-78	not standardized**	31.0		

* - not defective, may be specified depending on the conditions of storage and transportation;

** - for the aluminum industry, the fraction content less than 8 mm should not exceed 45% (mass).

Conclusion: Petroleum anode coke (TU 0258-080-99418673-2008 with am.1), grade "STO 74558829-0308-2021", type III **meets the requirements:**

— TU 0258-080-99418673-2008 "Anode coke. Specializations"

— STO 74558829-0308-2021 "Oil coke Specifications".

Additional Information:

— Transportation and storage - according to GOST 1510;

— the warranty period of storage is 5 years from the date of manufacture;

— safety data sheet No. RPB 74558829 19 67276. Valid until April 16, 2026;

— the manufacturer LLC "PH - Komsomolsk Oil Refinery" guarantees that the quality of petroleum anode coke (TU 0258-080-99418673-2008 with amendment 1) grade "STO 74558829-0308-2021", type III requirements of TU 0258-080-99418673-2008 " Anode coke. Specifications, STO 74558829-0308-2021 Petroleum coke. Specifications" subject to the conditions of transportation and storage according to GOST 1510 for 5 months from the date of manufacture.

L.S.

Shift supervisor of shop No. 3
(authorized
on the basis of order No. 1637 dated 09.11.17)
Certificate issue date

/signature/

P.A. Tkachenko

04.02.2022

/seal/ Limited Liability Company * n.
Komsomolsk-on-Amur* "RN Komsomolsk Oil
Refinery" For viewing"