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Joint Stock Company Angarsk Petrochemical Company  
Legal address:  
665800, Irkutsk region, Angarsk, Pervyi industrial area, block 63, bld. 2  
Place of manufacture:  
Irkutsk region, Angarsk city  
E-mail: delo@anhk.rosneft.ru, tel. (3955) 578-404; 577-002

Certificate of Quality Management System ISO 9001:2015 № 19.2132.026  
Certificate validity period: through 14.11.2022  
ISO/TS 29001:2010 No. 19.2140.026  
Certificate validity period: through 14.11.2022

Test Center - Quality Control Division,  
Joint Stock Company Angarsk Petrochemical Company  
665830, Irkutsk region, Angarsk, territory of JSC Angarsk Petrochemical Company  
e-mail: of61@anhk.rosneft.ru, tel. (3955) 575-423

**QUALITY CERTIFICATE No. 201**  
**Technical-grade liquid ammonia**

Documents establishing product specifications:  
Industry standard 05742746-008-2014 Technical-grade liquid ammonia. Technical specifications.  
OKPD2 code 20.15.10.130  
Batch number: 201  
Date of manufacture: 04.12.2021  
Batch size (mass): 33.409 t  
Sampling site (according to GOST 6221-90): Pipeline No. 9575  
Date of sampling: 04.12.2021  
Test date: 04.12.2021  
The certificate was issued on the basis of test results dated 05.12.2021 No.1379-250301/ПК

No.	Indicator	Method Test	Standard according to Industry standard 05742746-008-2014	Actual value
1	Mass fraction of ammonia, %	GOST 6221-90 p.3.2	not less than 99.6	99.87
2	Mass fraction of nitrogen in ammonia, %	GOST 6221-90 p.3.3	no less than 82	82.2
3	Mass fraction of water (residue after evaporation), %	GOST 28326.1-89, (ISO 4276-78)	no more than 0.4	below 0.15
4	Mass concentration of oil, mg/dm <sup>3</sup>	GOST 28326.4-89	not standardized, definition required	below 0.2
5	Mass concentration of iron, mg/dm <sup>3</sup> ,	GOST-28326.5-89	not standardized, definition required	below 0.25
6	Mass fraction of total chlorine, mln-1 (mg/kg)	GOST 28326.6-89	not standardized, definition required	0.7
7	Mass fraction of carbon oxide, (IV) mln-1 (mg/kg)	GOST 28326.7-89	not standardized, definition required	Over 50

**Conclusion:** Technical-grade dimethylamine **meets the technical specifications of:**  
- Industry standard 05742746-008-2014 Technical-grade liquid ammonia. Technical specifications.

**Additional Information:**

Transportation and storage - according to Industry Standard 05742746-008-2014 The manufacturer, JSC Angarsk Petrochemical Company, guarantees technical-grade liquid ammonia quality conformance with GOST 05742746-008-2014, subject to transportation and storage terms and conditions according to Industry Standard 05742746-008-2014, for 1 year of the date of manufacture.  
- Safety Data Sheet No. 05742746.20.61767.

Tanks №:

Accepted for shipment

To whom it is sent:

LLC Angarsk Nitrogen Fertilizer Plant

S.A. Andrusenko

Shift Supervisor

L.S.

Certificate issue date 05.12.202

Accepted for shipment

\*4820934+855772J\*

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**EXAMPLE**

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**Appendix to Certificate No. 201 dated 05.12.2021  
Technical-grade liquid ammonia**

Industry standard 05742746-008-2014 Technical-grade liquid ammonia. Technical specifications.

Item No.	Legislative act, regulatory document or set of rules	Information required for the product description		
		Indicator	Test method	Actual value
1	Tax Code of the Russian Federation, Article 181, sub-point 11	The aggregate state at 20 °C and a pressure of 760 mm Hg.	-	gaseous

Process name

Shift Supervisor

S.A. Andrusenko