



# MINERAL FERTILIZERS

PRODUCT CATALOGUE – 2023



## ABOUT US

Limited Liability Company Gazprom neftekhim Salavat is Russia's major petrochemical complex situated in the Republic of Bashkortostan in the town of Salavat.

Set up in 1948 as Industrial Complex No. 18, in 2011, the Company was integrated into the Gazprom system. On October 1, 2016, the Company was reorganized in the form of transformation into LLC "Gazprom neftekhim Salavat".

In August 2021, the General Meeting of the Company's Members made a resolution on early termination of Director General's powers exercised by Ayrat Karimov and transfer of the sole executive body's powers (those of Gazprom neftekhim Salavat Director General) to another business entity (Management Company), namely Limited Liability Company RGD pererabotka Salavat.

Gazprom neftekhim Salavat is one of the leading companies of Gazprom Group in oil refining, petrochemistry and mineral fertilizers production.

Gazprom neftekhim Salavat comprises the Oil Refinery, Gas & Chemical Plant and the Monomer Plant.

The Company carries out a full cycle of crude hydrocarbons processing and produces more than 150 different products, over 50% of which are bulk products including motor gasoline, gasoil, fuel oil, road bitumen, polystyrene, low density polyethylene, ammonia, urea etc.

The Company takes one of the leading positions in the domestic production of a range of products including butyl alcohols, plasticizers and styrene.

The products are shipped to all federal subjects of the country. The products are shipped to more than 30 countries.





## HISTORY OF DEVELOPMENT

- 1960s — The Complex grew into a highly developing petrochemical and refining center. The history of ammonia and urea production units which afterwards established the Mineral Fertilizer Plant dates back to that period.
- 1964 — The capacity of ammonia and urea production plants increased.
- 1971 — The revamp of urea and ammonia plants turned the Company into the largest supplier of mineral fertilizers in the country and it became the Company's pride. Upon the results of the 9th five-year period the enterprise produced over 1 million tpa of fertilizers (twice as much as in 1970).
- 1988 — Construction of a new modern large-scale ammonia production unit AM-76 (workshop No. 54) was completed in Salavat.
- 2000 — Since the early 2000, activities oriented to expand the capacity, decrease the energy consumption and improve the quality of products started to be implemented in ammonia (AM-76) and urea plants in Salavat.
- 2010 — Construction of a new urea granulation unit with a 1400 t/d capacity started.
- 2011 — The Company acquired a new name, JSC "Gazprom neftekhim Salavat".
- 2012 — Production of granular urea started.
- 2016 — The Company was reorganized in the form of transformation into LLC "Gazprom neftekhim Salavat".



## COMPETITIVE ADVANTAGES

HIGH QUALITY OF PRODUCTS , meeting the Russian and international standards;

QUALIFIED STAFF, advancing an efficient implementation of progressive methods and technologies on all the levels from the product output to its sales;

USE OF UP-TO-DATE INFORMATION TECHNOLOGY IN COMPANY MANAGEMENT, increasing the efficiency of corporate governance.



## AMMONIA ANHYDROUS LIQUID $\text{NH}_3$

GOST 6221-90, Amendment No.1

### APPLICATIONS

For nitric acid production, nitrogenation, as a cooling agent, for shielding atmospheres, as a feedstock for fertilizers, as a nitrogen fertilizer for agricultural use.

GUARANTEED SHELF LIFE: 1 year.  
EXPIRY DATE: none.

### PROPERTIES

property	value, grade B
Ammonia, wt %, min	99.6
Nitrogen, wt %, min	82
Water (Karl Fischer method), wt %, max	–
Water (evaporation residue), wt %	0.2 – 0.4
Oil concentration, wt, mg/dm <sup>3</sup> , max	8
Iron concentration, wt, mg/dm <sup>3</sup> , max	2

### TRANSPORT

Specialized rail and road transportation.

### PACKING

Steel cylinders with a capacity of 20–50 dm<sup>3</sup>.



## AQUA AMMONIA $\text{NH}_3\text{H}_2\text{O}$

GOST 9-92

### APPLICATIONS

For industrial use, as a nitrogen fertilizer for agricultural use.

GUARANTEED SHELF LIFE: 3 months.

Clear colorless or yellowish liquid

### PROPERTIES

property	value, grade B
Ammonia, wt %, min	25
As nitrogen, %, min	20,5
Non-volatile residue, g/dm <sup>3</sup> , max	Not specified
Carbon dioxide, g/dm <sup>3</sup> , max	8

### SAFETY REQUIREMENTS

Aqua ammonia is a non-flammable, non-explosive liquid. Under normal conditions, ammonia gas released from aqueous ammonia is an explosive, toxic and flammable gas with pungent odor. Hazard class 4. Causes severe eye irritation, burns of skin and mucous membranes, shortness of breath and dizziness.

### TRANSPORT

Rail and road transportation.

### PACKING

Aluminum containers and tank cars. Stainless steel containers.





UREA (NH<sub>2</sub>)<sub>2</sub>CO – carbon dioxide hydrazine carbamide

GOST 2081-2010, Amendments No.1, 2

APPLICATIONS

All-purpose high-analysis water-soluble nitrogen fertilizer. All types of soil and crops; basal dressing, spring or supplementary fertilizing. Top dressing of vegetables and fruits, late fertilizing of wheat for higher protein content. As a feed additive in cattle production. Resistant to wash-out which is critical for irrigated cropping areas. Applied to the soil in a solid state or as a solution with other liquid nitrogen fertilizers. Widely used in the chemical industry in the synthesis of carbamide-aldehyde resins (including urea formaldehyde resins), in the production of fiberboards and in furniture production, as feed for yeasts at the production of ethyl alcohol and distillates from edible raw material. Urea derivatives are efficient herbicides.

GUARANTEED SHELF LIFE: 6 months. EXPIRY DATE: none.

PROPERTIES

property	value	
	grade A	grade B
Nitrogen, dry basis, wt %, min	46.2	46.2
Biuret, wt %, max	1.4	1.4
Free Ammonia, wt %, max		
– crystal urea	0.01	–
– granular urea	0.03	–
Water, wt %, max		
– hygroscopic	0.3	0.3
– total	0.6	0.6
Particle Size Distribution, wt %:		
– 1–4 mm, min	–	94
– less than 1 mm, max	–	5
– 6 mm sieve residue	–	negative
Static Strength, MPa (kg/cm <sup>2</sup> ), min	–	1.2 (12)
or per 1 granule, N (kgf), min	–	3 (0.3)
Friability, %, min	–	100

TRANSPORT

Road and rail transportation

PACKING

50 kg PP bags or in bulk.



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