



Беларускі дзяржаўны канцэрн па нафце і хіміі  
Адкрытае акцыянернае таварыства  
"Гродна Азот"  
(ААТ "Гродна Азот")  
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The Belarusian State Concern for Oil and Chemistry  
Joint Stock Company  
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На № \_\_\_\_\_ ад \_\_\_\_\_

Joint Stock Company "Grodno Azot" is one of the largest enterprises and the only producer of nitrogen mineral fertilizers in the Republic of Belarus. The main types of products manufactured by the enterprise are urea prilled and granular (HS code 3102101000), urea-ammonium nitrate UAN (HS code 3102800000), ammonium sulphate (HS code 3102210000), hydroxylamine sulphate crystalline (HS code 2825100000), caprolactam (HS code 2933710000). More information about company's products, you can get on the official website: <https://azot.by/en/products/main-products/>.

### Nitrogen fertilizers:

#### Urea prilled and granular.

Transported by rail and road in bulk and packed in big bags.

Possible monthly supply quantities of urea granular/prilled, (thousand tons):

Month	1	2	3	4	5	6	7	8	9	10	11	12	Total thousand tons
Quantity thousand tons	x	x	x	x	x	30	30	30	30	30	30	30	210,0

Qualitative characteristics of the produced UREA PRILLED/GRANULAR are shown in the table:

Products	Urea prilled (GOST 2081-2010)	Urea granular (TU RB 500036524.096-2003)
Parameters:	Norms	
N content, % mass, not less than	46,2	46,2
Biuret content, % mass, not more than	1,4	1,4
Water content (by Fisher method), % mass, not more than	0,5	0,5
Particle size distribution:		
1-4 mm range, not less than	87 %	-
2-4 mm range, not less than	70 %	95% (2-5 mm range)
Less than 1 mm range, not more than	7 %	0,5%
Static strength of granules, kgs/granule, not less than	0,7	-



Free from harmful substances	with conditioning and/or anti-tracking additives.	conditioning additive
Treated with anti-caking and/or conditioning agents	according to МВИ.МН 4457-2012 and determination of mass fraction of perfluorine (uresoft) according to МВИ.МН 925-99	according to МВИ.МН 4457-2012

### Urea-ammonium nitrate UAN.

Transported by rail tank wagon and tank truck.

Possible monthly supply quantities of UAN, (thousand tons):

Month	1	2	3	4	5	6	7	8	9	10	11	12	Total thousand tons
Quantity thousand tons	30	30	0	0	0	70	70	30	30	40	40	40	380,0

Qualitative characteristics of the produced UAN are shown in the table:

Products	UAN-28 grade	UAN-30 grade	UAN-32 grade
Parameters:	Norms		
Appearance	Clear or having a touch of colour liquid		
Urea/ammonium nitrate mass ratio	0,78±0,05	0,78±0,05	0,78±0,05
CORROGARD MC 1007A organic inhibitor mass fraction, %, not less than	0,01	0,01	0,01
Total mass fraction of nitrogen, %, not less than	28	30	32
Alkalinity as free NH <sub>3</sub> , %	0,01 – 0,50	0,01 – 0,50	0,01 – 0,50

Determination of the total mass fraction of nitrogen is carried out by physical-chemical method in accordance with paragraph 5.3.3 of TU RB 500036524.054-2004.

Determination of the mass ratio of urea and ammonium nitrate is performed in accordance with paragraph 5.3.4 of TU RB 500036524.054-2004.

Determination of alkalinity in terms of free ammonia is performed in accordance with paragraph 5.2 of TU RB 500036524.054-2004.

Determination of the mass fraction of corrosion inhibitor is carried out in accordance with the International Standard Measuring Instrument 2827-2008 "Measuring the mass fraction of corrosion inhibitor in liquid nitrogen fertilizer UAN".

*Sampling in accordance with TU RB 500036524.054-2004.*

### AMMONIUM SULPHATE

GOST 9097-82

Designed for agriculture, industry, retail and export.

Quality characteristics of the produced AMMONIUM SULPHATE are shown in the table:

Parameters description:	Norms
Appearance	White or clear crystals
Nitrogen mass fraction as dry substance, %, not less than	21
Mass fraction of water, %, not more than	0.2
Free H <sub>2</sub> SO <sub>4</sub> mass fraction, %, not more than	0.03
Mass fraction more than 0.5 mm, %, not less than	80
Mass fraction less than 6 mm, %	100
Flowability, %	100
Mass fraction of residue non soluble in water, %, not more than	0.02

### CRYSTALLINE HYDROXYLAMINE SULPHATE

Intended for the production of varnishes, photoreagents, film and photo materials. Hydroxylamine sulphate crystalline TU RB 00203832.083-97. CAS № 10039-54-0

Uses:

Industry	Application
Textile	Additive for bleaching jeans & wool
Mining	Floatation agent for copper ores
Pharmaceutical	Intermediate / generic drugs
Synthetic rubber	Stopping agent for SBR polymerization
Natural rubber	Viscosity stabilizer
Water treatment	Polyacrylamide & flocculants manufacturing
Fatty acids / soaps	Anti-oxidant
Metallurgy	Accelerator for the phosphating process of iron and steel
Agricultural industry	Herbicides, insecticides, germicides, acaricides

Packing: polyethylene or polypropylene bags with a product weight of 25 kg. Transported by road.

Qualitative characteristics of the produced CRYSTALLINE HYDROXYLAMINE SULPHATE are shown in the table:

Hydroxylamine sulphate mass fraction, %, not less than	99
Ammonium sulphate mass fraction, %, not more than	0,5
Iron mass fraction, %, not more than	0,0003
Residue mass fraction after incineration, %, not more than	0,02
Mass fraction of plumbum, %, not more than	0,0001
Mass fraction of chlorides, %, not more than	0,0002
Mass fraction of water, %, not more than	0,5
Hydrogen ion concentration (pH) of HAS solution with 5% mass concentration, not less than	3,0

### CAPROLACTAM

Caprolactam is available in solid crystalline and liquid form. It is intended for the production of chemical fibers and threads, polyamide. Packing of crystalline - in polyethylene and paper bags. Transported by rail and road.

Qualitative characteristics of the produced CAPROLACTAM are shown in the table:

Permanganate index, units PI, not more than	4
Color of caprolactam water solution, mass fraction 50%, Hazen units	3,0
Volatile bases content, mmol/kg, not more than	0,4
Crystallization temperature, °C, not less than	68,8
Iron mass fraction, %, not more than	0,00002

Cyclohexanonoxime mass fraction, %, not more than	0,002
Optical density with mass fraction 50%, not more than	0,04
pH 20% solution	6,7 - 8,5
Alkalinity, mmol/kg, not more than	0,1
Acidity, mmol/kg, not more than	0,05

**The basic conditions for export sales are the following:**

Terms of delivery: FCA Grodno (railway station Auls – 135301) or DAP board of Republic of Belarus (shipment in the railway wagons of the buyer's property is preferable), CPT seaports of Russian Federation.

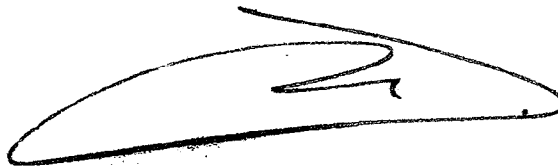
Payment terms: 100% prepayment.

Currency: Russian ruble (RUB), Chinese yuan (CNY).

**Pricing policy:** the price for the above products is subject to discussion based on the results of negotiations, taking into account the declared quantity and logistics for the delivery of goods to the buyer.

In case you have any questions please contact us by e-mail at [oao@azot.com.by](mailto:oao@azot.com.by) or phone +375 (152) 79-45-84, +375 (152) 79-48-34, +375 (152) 79-42-65.

Deputy General Director  
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A. Strechen