

## **PRODUCT PASSPORT**

## **AMMONIUM NITRATE**



Normative-technical document							
State standard 2-	-85 (edit.№1,2,3)						
Chemical name in accordance with IUPAC							
Ammonium nitrate							
Chemical formula							
NH	4NO3						
CAS r	number						
6484-52-2							
Synonym							
Nitric acid ammonium salt, nitram	n, ammonium salt, norway saltpeter						
Co	odes						
HCDCS	3102309000						
HS code	31023000						
Classes of transport rates	433070						
UN #	1942						
The certificate of conformity (Nº, date of issue, expiration date)							
Reg. № UZ.SMT.01.230.1156981 fro	om 14.04.2011. Valid until 13.04.2014.						
Наличие сертификата СМК на соответст	вие требованиям стандарта ISO 9001:2008						
Certificate of Compliance DQSGmbHreg. Number 470617 QM08 from 24.06.2013. Valid until 06/23/2016.The national system of certification EN certificate reg. № UZ.SMT.04.008.0040 from 24.06.2013 valid until 06.23.2016 Information about the availability of the legislation governing the treatment of substance Resolution of the Cabinet of Ministers of 30.04.2004 № 204 "On additional measures to control production,							
transportation and sale of ammonium nitrate"							
	рименения						
The main consumers of ammonium nitrate are the following industries: - Agriculture ; - Manufacture of compound fertilizers ; - Mining complex ( as a component of explosives ); - The coal industry ; - Manufacture of explosives; - The construction industry ; - Furniture and wood industry; - Furniture and wood industry; - Petrochemicals. Universal highly concentrated nitrogen fertilizer containing ammonium and nitrate forms of nitrogen in equal quantities to supply the plants throughout the growing strength of the period. Can be used on all soils and all crops. Most effective in early spring feeding winter crops as basic fertilizer for spring crops , corn sunflower , etc. In row application for potatoes, beets , etc. good effect is obtained by simultaneous applica- tion of phosphorus and potassium. Use it for fertilizer and fertilizing of winter grain and tilled crops . Frac- tional make ammonium nitrate to reduce the loss of nitrate nitrogen leaching . On calcareous soils contributes to acidification of the ground. It has excellent physicochemical characteristics , which facilitates storage and application . Fully water-soluble .In addition , ammonium nitrate is widely used for the production of com- plex fertilizers , as well as various types of fertilizer mixtures MAIN CHARASTERISTICS OF THE PRODUCT							
Appearance							

Granulated product

Molecular weight         80,043           Density, Um <sup>3</sup>		Basic physi	ical and chemical pro	operties			
- the true       I.69 ÷1.725         - bulk granular product with a moisture content of 1% with dense packing / for loose packing       I.64 / 0.826         Temperature of melting, °C       169,6         Heat of fusion, kJ/kg       73,21         The heat of formation (crystalline modification IY) at 25 °C and 0,101 MPa, kJ / mol       365,6         Value of the angle of repose of granular ammonium nitrate-ry at the size of the pellets I - 3 mm with the addition of 0,33% MgO in product moisture 0,5%,       28         Technical characteristics         The Name of indicator         tor       A       Baccumi copr       Bropoù copr         The total mass of nitrate and ammonium nitrate-ry at the size of summonium nitrate and ammonium nitrate of mamonium nitrate not ammonium nitrate not normalized 34,4       Not normalized 34,4         2 Mass fraction of water, %, not less         - Nitrogen in dry subtance, %, not less         - Not normalized 34,4         2 Mass fraction of water, %, not less         - Not normalized 34,4         2 Mass fraction of substance, %, not less         - Not normalized Not normalized Not normalized Not normalized Not normalized Not normalized aid, %, not more	Molecular weight					80,043	
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Heat of fusion , kJ/kg     73.21       The heat of formation (crystalline modification IY) at 25 ° C and 0,101 MPa, kJ / mol     365,6       Value of the angle of repose of granular ammonium nitrate-ry at the size of the pellets 1 - 3 mm with the addition of 0,33% MgO in product moisture 0,5%.     28       Technical characteristics       The Name of indica- tor     Technical characteristics       The total mass of ni- trate and ammonium nitrogen based on: - By NH4NO3 in dry matter,%, not less     Bucunuñ copr     IIepsuă copr       2 Mass fraction of wa- ter,%, not more: - With the addition of 0,3     0,3     0,3     0,3     0,3       3 PH of a 10% aqueous solution of not less than 0% solution of nitric acid,%, not more     5,0     5,0     5,0     5,0       5 Particle size: - Mass fraction of granules ranging in size from 1 to 3 mm,%, not less     93     He нормируется     He нормируется     He нормируется						1,164 / 0,826	
Heat of fusion , kJ/kg         73.21           The heat of formation (crystalline modification IY) at 25 ° C and 0,101 MPa, kJ / mol         365,6           Value of the angle of repose of granular ammonium nitrate-ry at the size of the pellets 1 - 3 mm with the addition of 0,33% MgO in product moisture 0,5%.         28           Technical characteristics           The Name of indica- tor         Technical characteristics           The total mass of ni- trate and ammonium nitrogen based on: - By NH4NO3 in dry matter,%, not less         Bucunuï copr         Itepsui copr           - Not normalized substance,%, not less         98         Not normalized 34,4         Not normalized 34,4         Not normalized 34,4           2 Mass fraction of wa- ter,%, not more: - With the addition of nitrates, calcium and magnesium 3 pH of a 10% aqueous stances not soluble in a 10% solution of nutric acid,%, not more         5,0         5,0         5,0         5,0         5,0           5 Particle size: - Mass fraction of granules ranging in size from 1 to 3 mm,%, not less         93         He нормируется         He нормируется         He нормируется         He нормируется	Temperature of melting,	°C				169,6	
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Grandes ranging in the reprine for the former of the forme		Не нормируется	95	95		95	
size from 1 to 4 mm,%,		The merinipy of the	20	20		,,,	
not less including:							
- Pellet size of 2 to 4	Ũ						
mm,%, not less than, Не нормируется 80 50 Не нормируется		Не нормируется	80	50		Не нормируется	
		1 1 J				1 1 5	
- Mass fraction of	- Mass fraction of						
granules smaller than 4 3 3 4		4	3	3		4	
1 mm,%, not more	-						
- Mass fraction of							
granules larger than 0,0 0,0 0,0 0,0	granules larger than	0,0	0,0	0,0		0,0	
6 mm,%	•						
<b>6</b> Static strength of	<b>6</b> Static strength of						
granules, kg / pellet, at	granules, kg / pellet, at						

		1				
least:- Supplemented						
with calcium and mag-						
nesium nitrate	0,5	0,8	0,7	0,5		
7 Friability, %, not less	100	100	100	100		
Note: At the request o	of consumers, in addi	tion to the requiremen	ts of GOST 2-85 set of	r same-regulated		
	f	ollowing indicators:				
<b>1</b> pH of a 10% aque-	На мацаа 5	50.65	50.65	50.65		
ous solution	The menee J	5,0-0,5	5,0-0,5	5,070,5		
2 Mass fraction of ad-						
ditives in terms of dry						
matter:						
- Calcium and magne-	$0,2\div0,5$	$0,2\div0,5$	0,2÷0,5	$0,2\div0,5$		
sium nitrate as CaO%						
3 Mass fraction of iron	25.20	25.20	25.20	25.20		
doped calcium nitrate%	25-50	25-50	25-50	23-30		
	Pa	ckaging and storage				
Ammonium nitrate packed in polypropylene bags with valve and liner made of polyethylene film (type B)						
TSh 6.1 - 00203849 - 105:2012. Product weight in bags must be no more than 50 kg with a tolerance of $\pm 1$						
kg. Released to consumers in bags and in bulk. Ammonium nitrate packed in polypropylene bags, stored in a						
covered, dry and clean warehouses, protecting the product from moisture. Ammonium nitrate packed in						
bulk, stored in warehouses with controlled temperature (less than 30 0 C) and humidity (no more than 50%)						
Transportation						
Transportation nitrate in bags made in covered railway wagons and auto transport. Nitrate can be transported						
unpackaged in mineral fertilizer or cement hopper and trucks with shelter						
Product safety information						
Ammonium nitrate is a class IV hazard ( low-hazardous substances ) . Maximum permissible concen-						
tration of ammonium nitrate in the working area of industrial premises - 10 mg/m3.Ammonium nitrate is an						
oxidizing agent and a fire hazard. At a temperature of 210 0C and interaction with sulfur, pyrite sulfur, acids,						
superphosphate , bleach powder E - metals (especially zinc ) decomposes releasing toxic oxides of nitrogen						
and oxygen. The escaping oxygen can cause a fire of combustible materials ( bags ) and , as a consequence ,						
the fire . Ammonium nitrate in terms of explosion relatively insensitive to shock , friction, impact , remains						
stable in contact with sparks of varying intensity. In the case of ammonium nitrate contamination of organic						
materials or strong fire decomposition of ammonium nitrate can go into an explosion . Fires arising from						
open flame or due to detonation, high temperature salt and lack of heat exchange with air (closed space),						
melts, decomposes explosively.						
Warranty period of storage						
Shelf life - 6 months from date of manufacture						
1 pH of a 10% aque- ous solution 2 Mass fraction of ad- ditives in terms of dry matter: <ul> <li>Calcium and magne- sium nitrate as CaO%</li> <li>3 Mass fraction of iron doped calcium nitrate%</li> </ul> Ammonium nitrate packers TSh 6.1 - 00203849 - 10 kg. Released to consume covered, dry and clean we bulk, stored in warehouse Transportation nitrate in unpackaged in mineral fe Ammonium nitrat tration of ammonium nitrat trating agent and a fire superphosphate , bleach and oxygen. The escapin the fire . Ammonium nitrat stable in contact with spa materials or strong fire of open flame or due to det	f He менее 5 0,2÷0,5 25÷30 Pa ed in polypropylene 5:2012. Product wei rs in bags and in bul warehouses, protec es with controlled ter bags made in covere rtilizer or cement ho Prod te is a class IV hazar rate in the working a e hazard. At a temper powder E - metals ( g oxygen can cause rate in terms of expl arks of varying inten decomposition of an onation , high temper posively.	Sollowing indicators: $5,0\div6,5$ $0,2\div0,5$ $25\div30$ ckaging and storage         bags with valve and         ght in bags must be noted.         Ammonium nitrate         ting the product from         nperature (less than 30)         Transportation         ed railway wagons and         pper and trucks with s         uct safety information         ed (low-hazardous subtarea of industrial premistrature of 210 0C and in         respecially zinc ) decord         a fire of combustible is         osion relatively insensistity. In the case of am         nmonium nitrate can gerature salt and lack of         ranty period of storage	5,0÷6,5 0,2÷0,5 25÷30 liner made of polyeth o more than 50 kg wit packed in polypropyle moisture. Ammonium 0 C) and humidity (no l auto transport. Nitrate helter n ostances ) . Maximum p nises - 10 mg/m3.Amm nteraction with sulfur, mposes releasing toxic materials ( bags ) and sitive to shock , friction monium nitrate conta go into an explosion of f heat exchange with a	$5,0\div6,5$ $0,2\div0,5$ $25\div30$ ylene film (type E h a tolerance of ± ene bags, stored in m nitrate packed i o more than 50%) e can be transporte permissible concer- nonium nitrate is a pyrite sulfur , acids c oxides of nitroge , as a consequence on, impact , remain mination of organi . Fires arising from		