

Ammonium nitrate

Normative document: DSTU 7370:2013

Chemical formula: NH_4NO_3

Application

Ammonium nitrate is used in agriculture as fertilizer and as a raw material in chemical industry.

Storage and transportation

Packed ammonium nitrate is stored in dry and clean covered warehouses that protect product from precipitation. Ammonium nitrate packed in paper bags or in bulk is stored in temperature (≤ 30 °C) and humidity ($\leq 50\%$) regulated warehouses. If ammonium nitrate is stored in bulk it is not allowed to mix it with other kinds of fertilizers. Ammonium nitrate packed in containers is allowed to store on open areas within one month.

Ammonium nitrate is transported in packages and in bulk by all means of transportation, except by air, in accordance with cargo carriage regulations applicable to a particular transportation mode. Ammonium nitrate is stored and transported separately from other materials and substances.

Guaranteed storage life: 6 months from the date of manufacture.
No expiration date as fertilizer.



Specifications

Description	Value		
	Grade A	Grade B	
		Premium quality	First quality
Total nitrate and ammonium nitrogen in terms of:			
NH_4NO_3 in dry matter, %, min	98	Not rated	Not rated
Nitrogen in dry matter, %, min	Not rated	34,4	34,4
Water, %, max:			
with sulphate and sulphate phosphate additives	0,2	0,2	0,2
with calcium and magnesium nitrate additives	0,3	0,3	0,3
pH of 10% water solution, min	5,0	5,0	5,0
with sulphate-phosphate additives	4,0	4,0	4,0
Substances insoluble in 10% nitric acid solution, %, max	0,2	Not rated	Not rated
Granulometry, %:			
1–3 mm, min	93	Not rated	Not rated
1–4 mm, min	Not rated	95	95
including: 2–4 mm, min	Not rated	80	50
less than 1 mm, max	4	3	3
more than 6 mm, %	0,0	0,0	0,0
Static strength of granules, N/granule (kgf/granule), min	5 (0,5)	–	7 (0,7)
with sulphate and sulphate-phosphate additives	–	10 (1,0)	–
with calcium and magnesium nitrate additives	–	8 (0,8)	–
Friability, %	100	100	100

Produced at OSTCHEM production sites: PJSC “AZOT” (Cherkasy), PJSC “CONCERN STIROL”, PJSC “RIVNEAZOT”, PrJSC “SEVERODONETSK AZOT ASSOCIATION”