

Urea

Normative document: GOST 2081-92 (DSTU 7312:2013)

Chemical formula: CO(NH₂)₂

Application

Urea is intended for use in industry as a raw material for production of resins, adhesives, etc., for use in agriculture as a nitrogen fertilizer.

According to its application urea is produced in 2 grades:

grade A – for industry;

grade B – for agriculture.

Storage and transportation

Urea is stored in covered warehouses that protect product from precipitation. If urea is stored in bulk it is not allowed to mix it with other kinds of fertilizers. Urea packed in containers and transport packages wrapped up with synthetic film can be stored on open areas.

Measures should be taken to avoid spillage of product and contamination of environment.

Urea is transported both packed (in bags, containers, transport packagings) and in bulk by all means of transportation in accordance with cargo carriage regulations applicable to a particular transportation mode.

Guaranteed storage life: 6 months from the date of manufacture.



Specifications

Description	Value				
	Grade A		Grade B		
	Premium quality	First quality	Premium quality	First quality	Second quality
Nitrogen (in terms of dry substance), %, min	46,3	46,2	46,2	46,2	46,2
Free ammonia, %, max	0,02	0,03	–	–	–
Biuret, %, max	0,6	1,4	1,4	1,4	1,4
Water, %, max:					
drying method	0,3	0,3	0,3	0,3	0,3
the Fischer method	0,6	0,6	0,5	0,5	0,6
Friability, %	–	–	100	100	100
Granulometry, %:					
1–4 mm, min	–	–	94	94	94
2–4 mm, min	–	–	70	50	–
less than 1 mm, max	–	–	3	5	5
sieve residue 6 mm, max	–	–	Absence	Absence	Absence
Static strength of granules, kgf/granule, min	–	–	0,7	0,5	0,3

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