

**CERTIFICATE OF QUALITY
AMMONIUM NITRATE
“OXIDIZER!” “FIREDANGEROUS!”
GOST 2-2013
NH₄NO₃
UN2067**

The ammonium nitrate is produced by neutralization of the nitric acid by gaseous ammonia

NAME OF THE CHARACTERISTICS:

Fraction of total mass of nitrate and ammonium nitrogen in terms to the nitrogen in dry matter, %, min	34,4
Fraction of total mass of water defined drying method, %, max.	0,3
PH of the 10% water solution, min	5,0

FRACTION OF TOTAL MASS OF THE ADDITIVES ON CONVERSION TO DRY MATTER:

Magnesium nitrate on conversion to MgO, %	0,25-0,5
Anti-caking agent, %	0,05-0,1

SIZE GRADING:

fraction of total mass of the 1-3 mm granules, %, min	does not normed
fraction of total mass of the 1-4 mm granules, %, min	95
2-4 mm, %, min	80
< 1 mm<, %, max	3
more than 6 mm, %	0,0
Static strength of the kg granule, min	0,8
Free flowing, % min	100
Density, g/cm ³	1,690-1,725

PROPERTIES:

The AN is an oxidizer. At 210°C plus interaction with sulphur, iron pyrite, hypochloride lime, metallic powders (particularly, zinc powder), the AN decomposes into toxic oxides and oxygen, the latter being a possible cause for ignition of matters contracting with the AN (particularly, sacks). The AN has high degree of dissolving in water. Stands out for its high hygroscopicity.

The AN is low toxic. Causes skin and mucous membrane irritation.

PRECAUTIONS:

A fire broken out because of the AN decomposition must be suppressed by huge amounts of water. Any contact with organic matters is prohibited because of the possibility of explosion.

APPLICATIONS:

In agriculture as a nitrogen fertilizer within all cultivated plants. The AN causes temporary acidification in soils with scanty buffer capacity.

SHIPMENT:

Ammonium nitrate is packed in two-layer, water-resistant polypropylene-polyethylene (PP + PE type) 50 kg sacks or 500 kg soft containers (big-bags). At the request of Consumer the packing in the 1,0 t Big-Bags is available.