

**AMMONIUM NITRATE  
EC FERTILIZER**

Number of revisions: 12  
Date of last revision: 11.01.2016

**General Information:**

**Chemical formula:**  $\text{NH}_4\text{NO}_3$                       CAS No.:                      6484 - 52 - 2  
**Molecular weight:** 80.04                      EO No.:                      229 - 347 - 8  
**Appearance:** prills  
**Use:** mineral fertilizer, formulation and repackaging of mixtures

**Specifications:**

Indices	Typical Values	Limit Values
Ammonium nitrate on dry basis, %	97.1	min. 97.1
Total nitrogen content on dry basis, % including: - ammoniacal form, % - nitrate form, %	34.4 17.0 17.4	min. 34.4 min. 17.0 min. 17.4
Moisture, %	0.2 - 0.6	max. 0.6
Combustible ingredients, expressed as C, %	0.08	max. 0.2
Porosity (oil retention), %	2	max. 4
pH aqueous solution at 20 °C (10 g/ 100 cm <sup>3</sup> )	4.5 - 6.0	min. 4.5
Chlorine (as Cl-), %	0.005	max. 0.02
Heavy metals (such as Cu), mg/kg	10	max. 10
Free flowing, %	100	min. 100
Granulometry: - particles with dimensions below 1 mm, % - particles with dimensions below 0.5 mm, %		max. 5 max. 3
Non-organic additives, % - calculated as magnesium oxide	0.3-0.5	max. 0.5
Organic anti-caking agent	treated	treated
Resistance to detonation	complies	must conform with the test

**The typical values are based on producer`s analyses.**

**Packing:**

\* One-layer bags (polyethylene) - 2.5 kg; 3.5 kg; 5.0 kg 10.0 kg net

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