

## **AMMONIUM NITRATE**

**WATER – SOLUBLE**

**EC FERTILIZER**

Number of revisions: 01  
Date of last revision: 14.05.2016

### **General Information:**

main constituent

**Chemical formula:**  $\text{NH}_4\text{NO}_3$

CAS - №: 6484 - 52 - 2

**Molecular weight:** 80.04

EO - №: 229 - 347 - 8

**Appearance:** prills

**Neochim PLC code: 13 - 18**

**Soluble in water:** completely soluble in water

**Use:** mineral fertilizer/appropriates for drip irrigation/, formulation and repackaging of mixtures

### **Specifications:**

| <b>Indices</b>                                           | <b>Typical Values</b> | <b>Limit Values</b>        |
|----------------------------------------------------------|-----------------------|----------------------------|
| Ammonium nitrate on dry basis, %                         | 97,1                  | min. 97,1                  |
| Total nitrogen content on dry basis, % including:        | 34,4                  | min. 34,4                  |
| - ammoniacal form, %                                     | 17,0                  | min. 17,0                  |
| - nitrate form, %                                        | 17,4                  | min. 17,4                  |
| Moisture, %                                              | 1,0                   | max. 1,0                   |
| Combustible ingredients, expressed as C, %               | 0,08                  | max. 0,2                   |
| Porosity (oil retention), %                              | 2                     | max. 4                     |
| pH of aq. solution at 20 °C (10 g/ 100 cm <sup>3</sup> ) | 4,5 – 6,0             | min. 4,5                   |
| Chlorine (as Cl <sup>-</sup> ), %                        | 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, %                | Less than 5           | max. 5                     |
| - particles with dimensions below 0.5 mm, %              | Less than 3           | max. 3                     |
| Inorganic additives/water soluble/, %                    |                       |                            |
| - calculated as magnesium oxide                          | 0,3-0,5               | max. 0.5                   |
| Organic anti-caking agent/ water soluble/                | treated               | treated                    |
| Resistance to detonation                                 | complies              | must conform with the test |

### **Packing:**

- Two-layer bags (polypropylene/polyethylene) 50 kg net
- Big bags – 500 kg; 600 kg net

These data are based on our current knowledge, experience and technical equipment. They do not relieve customers of carrying out their own tests and experiments, due to the great diversity of possible effects in processing and application of our products. They do not imply any legally binding assurances of certain properties and applications. The recipients of our products ought to abide by the existing legislation and regulations as well as possible reserved rights.

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