

PRODUCT SPECIFICATION

AMMONIUM NITRATE WATER – SOLUBLE

Number of revisions: 5
Date of last revision: 23.05.2023

Straight solid inorganic macronutrient ammonium nitrate fertiliser of high nitrogen content

General Information:

Main ingredient

Chemical formula: NH_4NO_3

CAS-№: 6484-52-2

Molecular weight: 80.04

EO-№: 229-347-8

Appearance: prills

Neochim PLC code: 13-18

Application: mineral fertilizer appropriate for drip irrigation,
formulation and repackaging of mixtures

Specifications:

Indices	Typical Values	Limit Values
Ammonium nitrate, %	97.1	97 ± 3
Total nitrogen content, %	34.4	34.4 ± 2
including: - ammoniacal nitrogen, %	17.0	17.0 ± 2
- nitric nitrogen, %	17.4	17.4 ± 2
Moisture, %	0.2 - 0.6	max. 1.0
Combustible ingredients, expressed as carbon (C), %	0.08	max. 0.2
Oil retention, %	2	max. 4
pH aqueous solution at 20°C (10 g/ 100 cm ³)	4.5 - 6.0	min. 4.5
Chlorine (as Cl ⁻), mg/kg	50	max. 200
Copper (Cu) content, mg/kg	0.1	max. 10
Zinc (Zn) content, mg/kg	0.4	max. 1500
Cadmium (Cd) content, mg/kg	<0.1	max. 3
Chromium (Cr (VI) content, mg/kg	<0.1	max. 2
Mercury (Hg) content, mg/kg	<0.01	max. 1
Nickel (Ni) content, mg/kg	<0.1	max. 100
Lead (Pb) content, mg/kg	<0.1	max. 120
Arsenic (As) content, mg/kg	<0.01	max. 40
Free flowing, %	100	100
Granulometry:		
- prills with dimensions 1mm-4mm, %	97-99	90 ± 10
- prills with dimensions below 1 mm, %	1-3	max. 5
- prills with dimensions below 0.5 mm, %	< 1	max. 3
Non-organic additives, %		
- 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

Packaging:

- * two-layer bags (polypropylene/polyethylene) 25 kg; 50 kg
- * big bags 500 kg; 600 kg; 1000 kg
- * sling bags 1000 kg net (25 kg bags); 1000 kg net (50 kg bags); 1500 kg net (50 kg bags)
- * slings

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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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