

PRODUCT SPECIFICATION NA/74/2016

Valid from: 01. 06. 2016

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1. Product name:

Trade name: Ammonium sulphate AS21
Chemical name: Ammonium sulphate
PKWiU (Polish Classification of Goods and Services) number: 20.15.32.0
CN code: 3102 21 00

Product characteristic: ammonium sulphate is a loose crystalline product in cream to grey and beige color.

The substance is not listed as dangerous substance according to the regulations of the European Parliament and Council Regulation (EC) No 1272/2008 of 16 December 2008 on classification, labeling and packaging of substances and mixtures (as amended).

Depending on granulation the following grades of ammonium sulphate are distinguished:

- 1) selected (select)
- 2) macro
- 3) standard
- 4) crystalline

Typical results of sieve analyses for different grades of ammonium sulphate AS21 correspond to the values given below:

Ammonium sulphate AS21 selected

Content of crystals with grain size above 3.55 mm min 70 %
 Content of crystals with grain size below 1.0 mm max 3 %

Ammonium sulphate AS21 macro

Content of crystals with grain size above 4.0 mm max 5 %
 Content of crystals with grain size between 1.0 ÷ 4.0 mm min 90 %
 Content of crystals with grain size below 1.0 mm max 5 %

Ammonium sulphate AS21 standard

Content of crystals with grain size between 1.0 ÷ 2.0 mm min 35 %
 Content of crystals with grain size below 1.0 mm max 65 %

Ammonium sulphate AS21 crystalline

Content of crystals with grain size above 1.0 mm min 75 %

2. Parameters of quality and analysis methods:

Parameter	Parameter Value	Analysis Method
Nitrogen content, on dry basis, % (m/m), not less than	21	ZN-16/ZA-45
Water content, % (m/m), not more than	0.3	ZN-16/ZA-45
H ₂ SO ₄ content, % (m/m), not more than	0.05	ZN-16/ZA-45

----- The product is made according to ISO 9001, ISO 14001, PN-N 18001, OHSAS 18001 -----

3. Packaging:

Ammonium sulphate AS21 can be packed into PE bags with net mass 25 kg, 50 kg or into big-bags (500 kg), and also can be delivered in bulk.

After agreeing with a customer, the fertilizer can be packed into a different kind of packaging with a different weight than the above mentioned.

If the fertilizers are in packaging, identification markings are placed on the packages or labels attached. If the fertilizer is in bulk, they are issued documents containing identification markings.

The label and the markings on the package and the accompanying documents must appear in at least the national language of the Member State in which the EC fertilizer is marketed.

The label, identification on the packaging or accompanying documents may include the following information:

- a) compulsory identification:
 - the words "EC FERTILIZER" in capital letters,
 - designation of the type of fertilizer: "A.1.4. Ammonium sulphate",
 - chemical symbol of the declared primary nutrient with the numbers indicating its declared content: "21 N",
 - wording of nutrients, their form and size: "21% (N) of total nitrogen expressed in ammonium form",
 - net mass,
 - the name, trade mark and address of the manufacturer,
- b) optional identification:
 - Instructions for the storage and transportation,
 - indications of the dose rates and conditions of use,
 - commercial description of the product.
- c) additional identification

Trade name of the fertilizer - compulsory for the packaged fertilizer - Act on Packaged Goods of 7th May 2009 (with subsequent amendments).

The accompanying labels, packaging and documents should also include:

- marking allowing to identify the product batch (i.e. date of packaging)
- package handling symbols: "Keep away from heat (solar radiation)", "Keep dry", "Stacking limitation" (not applicable in bulk dispatches), "Temperature limitations" - marking according to PN-EN ISO 780;
- information concerning recommended precautions:
 - avoid breathing dust.
 - wear protective gloves, eye protection.
 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

4. Transport:

Ammonium sulphate AS21 should be transported by these means of transport which protect it from water, precipitation, direct sunlight and damage to packaging.

The product is not subject to the provisions of RID/ADR.

5. Storage:

Ammonium sulphate AS 21 should be stored in covered, airy, dry and clean rooms in the conditions which protect the product from moisture and contamination. Maximum height of stacking is 12 layers for 25 and 50 kg packaging and 3 layers for 500 kg big-bags packaging. Additionally, in the case of ammonium sulfate it is permitted to store fertilizer in a plastic packaging in the carport and a landfill in piles protected against rainfall by the insulating material.

6. Guarantee:

The manufacturer guarantees that ammonium sulphate AS 21 is suitable for mechanical seeding for 12 months from the date of selling by the producer provided that storage and transportation conditions, as per the Product Specification and packaging, are observed. If the above conditions of transportation and storage are fulfilled, the product does not lose its fertilizing properties.

7. Evidence of the product's quality

Certificates of the Quality Control are issued on Buyer's request. For fertilizers sales in bulk, documents containing product's identification are issued. Copies of these documents must accompany the goods and be available for inspection.

8. Application:

Ammonium sulphate AS 21 is used in agriculture as a mineral fertilizer, in plastics industry, in textile industry and for herbicides production.

9. Certificates:

----- The product is made according to ISO 9001, ISO 14001, PN-N 18001, OHSAS 18001 -----

Ammonium sulphate AS 21 meets the requirements laid down by Regulation EC 2003/2003 (with subsequent amendments) according to fertilizers and it is marked as "EC Fertilizer".

The fertilizer products from Grupa Azoty S.A. are eligible for the Product Stewardship Program of Fertilizers Europe. The relevant certification confirms that Grupa Azoty S.A. manufactures fertilizers in processes which are perfectly safe to humans and the environment.

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