



PRODUCT INFO
& DATASHEET

CERTIFICATE OF ANALYSIS

SICO-AS CRYSTAL

AMMONIUM SULPHATE 21% N + 24% S

Fertiliser grade, white crystals, origin: EU

Chemical formula: $(\text{NH}_4)_2\text{SO}_4$

Appearance: white crystals

INDICATIVE STANDARD SPECIFICATIONS

* Chemical analysis	Target values	Test method (No.)	
Total N (nitrogen)	min. 21	%	
NH ₄ -N Ammonium nitrogen	min. 21	%	ISO 3332
Moisture	+/- 0.2	%	acc. to Fisher
Free acids (as H ₂ SO ₄)	max. 0.025	%	66102-603
Organic C	max. 0.3	%	
Sulphur Trioxide (SO ₃), water soluble	60	%	
Sulphur (S), water soluble	24	%	
Solubility in water	100	%	
pH	5.0 (+/- 1)		
* Physical properties			
Sieve analysis			
<u>Type 1</u>	OR	<u>Type 2</u>	
95% between 0.2 mm and 3.0 mm		Smaller than 0.5 mm: max. 10%, larger than 2 mm: max. 5%	
Average diameter: 0.8 mm		Average diameter: 1.1 mm (+/- 0.2)	
Anti-caking agent (Nonanolsulphate)	0.02 - 0.06	%	66102-609
Iron	max. 0.001	%	XRF
Aluminium	max. 0.0001	%	XRF
Arsenic	max. 0.00005	%	XRF
Bulk density	abt. 1000 kg/m ³		

This product has sufficient anti-caking properties.

*** Heavy metal concentration (indicative)**

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Arsenic (As)	< 2	mg/kg	ICP
Cadmium (Cd)	< 0.5	mg/kg	ICP
Chromium (Cr)	< 2	mg/kg	ICP
Copper (Cu)	< 10	mg/kg	ICP
Mercury (Hg)	< 0.1	mg/kg	ICP
Molybdenum (Mo)	< 0	mg/kg	ICP
Nickel (Ni)	< 2	mg/kg	ICP
Lead (Pb)	< 1	mg/kg	ICP
Selenium (Se)	< 0	mg/kg	ICP
Zinc (Zn)	< 5	mg/kg	ICP

CHARACTERISTICS

- * Physiologically acid.
- * High purity of raw material contents.
- * High solubility of the nutrient contents.

ADVANTAGES

- * Increases crop productivity.
- * Promotes the plant growth and development
- * Prepares plants to blossoming.

Any information in this publication is believed to be accurate and is given in good faith, but is for the customer to satisfy himself of the suitability for his own particular purpose. No representation, warranty or guarantee is made to its accuracy, reliability or completeness.



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Ammonia nitrogen is not washed out of the soil, is absorbed by plants slowly, enhances plant rooting, supports absorption of phosphorus and limits excess absorption of potassium. An advantage of this fertiliser is the possibility of providing plants with nitrogen and sulphur in spring. The high sulphate sulphur content, perfectly soluble in water, increases the immunity of plants and provides them with sulphur early in spring growth. It is important to remember that the highest, and ever more common, deficiencies of sulphur in soil occur in early spring, after it has been washed out of the soil in winter.

APPLICATIONS & DOSAGES (General Recommendations)

- * Can be spread both by direct soil application and in fertigation system, due to its total solubility.
- * Soil spreading: apply a dosage of 200 - 500 kg/ha
- * In fertigation systems: apply a dosage of 100 kg/ha in single or split application.

It is advisable to plan a fertilisation program considering the other basic nutrient requirements as well, and to apply in association with Phosphorus, Potassium, Calcium, Magnesium and all the trace elements.

SICO-AS as a spring-time fertiliser, may be used under all cultivated plants: winter and spring crops, economic and root plants, on grassland and in cultivation of vegetables and fruit cultures. It is particularly recommended for early-spring fertilisation of crucifer plants (rape, oil-yielding rape, mustard, cabbage, cauliflower, cabbage turnip), leguminous plants, potato, onion, leek, garlic and horseradish. It is recommended that SICO-AS be used first prior to sowing or crop treatment, so be mixed with soil or for top dressing before expected rain.

COMPATIBILITY

The product can be mixed with highly soluble Urea Phosphate (SICO-UP 17.44.0), Potassium Nitrate (SICO POTASNIT) and Potassium Sulphate (SICO SOLUSOP). **Do not mix with alkaline reaction and Calcium based products.**

STORAGE

Always keep the bag closed when not in use. Store out of direct sunlight and damp. Keep out of reach of children. Wash hands after use.

SHELF LIFE

Min. 2 years if stored dry, dark, away from direct sunlight in tightly closed bags.

PACKING

25 or 40 or 50 kgs net wpp + pe bags (loose bags or palletised) or big bags