

Ammonium Sulphate

White crystalline nitrogen fertilizer

Product Description

Ammonium sulphate used as a nitrogen and sulphur fertilizer in agriculture.

Certificate of Analysis

HSN Code: 3102.30

CAS Number: 7783-20-2

Classification: Non-Hazardous

Parameter	Specification	Test Method
Purity (as $(\text{NH}_4)_2\text{SO}_4$)	≥ 98.0 %	Gravimetric / Titration
Total Nitrogen (N)	20.5 – 21.2% (typ.)	Kjeldahl / Dumas
Sulphur (S) (as elemental S)	24.0 – 24.5% (typ.)	Gravimetric / IC
Sulphate (SO_4^{2-}) (c)	Corresponding to S content	Calculation / IC
Moisture (Loss on Drying)	≤ 0.5 – 1.0 %	Gravimetric (105–110 °C)
Insoluble Matter (in water)	≤ 0.2 – 0.5 %	Filtration / Gravimetric
pH (10% aqueous solution)	4.5 – 6.0	pH meter
Chloride (Cl^-)	≤ 0.05 – 0.2 %	Argentometric / Ion Chromatography
Sodium (Na as NaCl)	≤ 0.2 %	Flame photometry / IC
Heavy metals (Pb)	≤ 10 ppm	AAS / ICP-MS
Cadmium (Cd)	≤ 2 – 5 ppm	AAS / ICP-MS
Appearance	White crystalline granules or crystalline powder	Visual
Solubility	Highly soluble in water (readily dissolves)	Visual / Literature

Physical Properties

Appearance: White crystalline granules or fine crystalline powder

Odor: Odourless (slight ammoniacal smell possible if contaminated or heated)

Solubility: Readily soluble in water; insoluble in organic solvents

Packing: 25 kg / 50 kg multi-wall paper bags with polyethylene inner liner, 500–1000 kg jumbo bags (FIBC) for bulk shipment

Storage: Store in a dry, cool, well-ventilated area. Protect from moisture and water ingress. Keep away from strong bases

Safety & Handling

PPE: Gloves, dust mask

Hazards:

- Slightly hygroscopic
- May contribute to eutrophication