



TECHNICAL DATA SHEET

Product Name: Ammonium Sulfate – Industrial Grade

Chemical Name: Ammonium Sulfate

Molecular Formula: $(\text{NH}_4)_2\text{SO}_4$

CAS No.: 7783-20-2

HS Code: 31022100

Grade: Industrial Grade

Origin: China

PRODUCT DESCRIPTION

Ammonium Sulfate is a white or off-white crystalline salt, soluble in water and commonly used as a nitrogen fertilizer, chemical reagent, and industrial processing aid. It is produced as a by-product from caprolactam or coke oven gas processing and is widely applied in agriculture, chemical manufacturing, water treatment, and textile industries.

TYPICAL SPECIFICATIONS

Parameter	Specification
Nitrogen (as N)	≥ 21.0%
Moisture	≤ 1.0%
Free Acid (as H_2SO_4)	≤ 0.05%
Water Insolubles	≤ 0.1%
Appearance	White or light grey crystalline
Granularity	1–4 mm (or as per buyer's request)
pH (1% solution)	5.0–6.5
Odor	Odorless

APPLICATIONS

- Chemical Industry: Used in the manufacture of flame retardants, dyes, pigments, synthetic resins
- Textile & Leather: Employed in dyeing auxiliaries and tanning chemicals
- Water Treatment: Applied as a flocculant in industrial wastewater treatment
- Fermentation Aid: Nutrient source for industrial microbial processes
- Fertilizer Use: Though industrial grade, it may be used for non-edible crop support where regulations permit

PACKAGING

- 25kg PP/PE bags
- 50kg woven bags
- 1000kg jumbo bags
- Custom packaging available upon request

STORAGE & HANDLING

- Store in a dry, well-ventilated warehouse
- Avoid moisture, direct sunlight, and strong oxidizers
- Keep packaging sealed to avoid caking and degradation
- Shelf life: 2 years under proper storage

SAFETY & TRANSPORT

- Non-flammable, non-toxic
- Transport as general chemicals
- UN No.: Not classified as dangerous goods
- Follow local environmental and chemical handling regulations