



TECHNICAL DATA SHEET

Ammonium Sulfate

Description — Ammonium sulfate is a white crystalline solid, available in granular, coarse or standard forms. It is soluble in water.

Applications — Ammonium sulfate is used in a variety of applications including crop nutrition, plant protection products, cattle feed, cellulose insulation, leather tanning, and many other industrial processes.

Typical Analysis – Ammonium Sulfate			
Product Specifications	Granular	Coarse	Standard
Assay, %N (dry basis), minimum	21	21	21
Sulfur as S, % minimum	24	24	24
Water, % maximum	0.5	0.5	0.5
Acidity, % (5% solution)	0.1	0.1	0.1
Approx. density, lbs/cu. ft.	61	61	61
*SGN	220-245	120-130	60-70

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

Molecular Weight: 132.14

CAS Registry Number: 7783-20-2

Safety — Ammonium sulfate is moderately irritating to the eyes and mildly irritating to the skin. Always refer to the Safety Data Sheet (SDS) for detailed information on safety.

Packaging — Material is shipped as bulk or bagged.

Storage & Handling — Ammonium sulfate has an almost unlimited shelf life when properly stored in a protected storage area. Storage must avoid excessive heat. Above 282°C, ammonium sulfate will begin to decompose and release ammonia and sulfur trioxide. Many metals, such as iron and zinc, are attacked by ammonium sulfate in the presence of moisture; but aluminum, 18/10 CrNi steel, and A.I.S.I. 321 are not. Materials that are resistant to Ammonium Sulfate solutions are 18/10/2 CrNiMo steel, A.I.S.I. 316/Ti and polyesters. Always refer to the Safety Data Sheet (SDS) for detailed information on handling and disposal.

*SGN is estimated based on screen sizing

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