



## TECHNICAL DATA SHEET

# Ammonium Sulfate

**Formula:** (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>

**Molecular Weight:** 132.14

**CAS Registry Number:** 7783-20-2

**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 fertilizer, cattle feed, cellulose insulation, leather tanning, and herbicides.

| Typical Analysis – Ammonium Sulfate |            |                     |            |                   |            |                     |            |
|-------------------------------------|------------|---------------------|------------|-------------------|------------|---------------------|------------|
| Product Specifications              |            |                     |            | Granular          | Coarse     | Standard            |            |
| Assay, %N (dry basis), minimum      |            |                     |            | 21                | 21         | 21                  |            |
| 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                  |            |
| Sulfur as S, % minimum              |            |                     |            | 24                | 24         | 24                  |            |
| Typical Sieve Analysis              |            |                     |            |                   |            |                     |            |
| U.S. Mesh                           | Tyler Mesh | Granular % Retained |            | Coarse % Retained |            | Standard % Retained |            |
|                                     |            | Mesh                | Cumulative | Mesh              | Cumulative | Mesh                | Cumulative |
| 8                                   | 8          | 8                   | 22         |                   |            |                     |            |
| 10                                  | 9          | 10                  | 28         |                   |            |                     |            |
| 12                                  | 10         | 12                  | 23         | 12                | 2          |                     |            |
| 14                                  | 12         | 14                  | 18         | 14                | 2          |                     |            |
| 16                                  | 14         | 16                  | 8          | 20                | 73         |                     |            |
| 18                                  | 16         | 18                  | 1          | 25                | 17         |                     |            |
| 20                                  | 20         | 20                  | 0          | 30                | 5          | 20                  | 1          |
| 30                                  | 28         | 30                  | 0          | PAN               | 2          | 30                  | 8          |
| 40                                  | 35         | PAN                 |            |                   |            | 40                  | 54         |
| 50                                  | 48         |                     |            |                   |            | 50                  | 25         |
| 70                                  | 65         |                     |            |                   |            | 70                  | 11         |
| 100                                 | 100        |                     |            |                   |            | 100                 | 1          |
| PAN                                 | PAN        |                     |            |                   |            | PAN                 | 0          |

**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 and 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.

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