



GENERAL DATA SHEET

## Ammonium Sulfate (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>

• **Application:** Ammonium Sulfate is used primarily where there is a need for supplemental N and S to meet the nutritional requirement of growing plants. Since it contains only 21% N, there are other fertilizer sources that are more concentrated and economical to handle and transport. However, it provides an excellent source of S which has numerous essential functions in plants, including protein synthesis. Because the N fraction is present in the ammonium form, ammonium sulfate is frequently used in flooded soils for rice production, where nitrate-based fertilizers are a poor choice due to de-nitrification losses. Some general applications are as below:

- Use of Ammonium sulfate is as a fertilizer for alkaline soils.
- In the soil the Ammonium ion is released and forms a small amount of acid, lowering the PH balance of the soil, while contributing essential nitrogen for plant growth.
- It is also used as an agricultural spray adjuvant for water-soluble insecticides, and fungicides.
- Preparation of other Ammonium salts.
- It is particularly effective as an adjuvant for 2,4-D (amine) glyphosate , and glufosinate herbicides.
- Using it as water treatment industry and/or cleaning additive.

• **Shape:** Powder or Crystals.

• **Specifications:**

Characteristic	Specification
Nitrogen	21% Min
Sulfur	24% Min
Moisture (H <sub>2</sub> O)	1.0 Max wt%
Free Acid (H <sub>2</sub> SO <sub>4</sub> )	0.2 Max wt%
Water Solubility	750 gr/l
Solution PH	5-6