

Technical Datasheet (TDS)

Product Name: Manganese Sulfate Monohydrate ($\text{MnSO}_4 \cdot \text{H}_2\text{O}$) Fertilizer **Grade:** Fertilizer Grade **Application:** Corn and Soybean Deficiencies

1. Company Information

- **Company Name:** BTLnewmaterial
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2. Product Description

Manganese sulfate fertilizer for corn and soybean deficiencies provides a highly bioavailable manganese (Mn) source for crop nutrition. With a Manganese (Mn) content of 31–32%, it supports chlorophyll synthesis and enzyme activation in Mn-deficient soils. It is highly soluble and suitable for both soil application and foliar spray formulations.

3. Technical Specifications

Parameter	Typical Value
MnSO ₄ · H ₂ O Purity	≥ 98%
Manganese (Mn) Content	31–32%
Water Solubility	≥ 99%
Moisture	≤ 0.5%
Particle Size	80–200 mesh / granular optional
Bulk Density	0.9–1.3 g/cm ³
Iron (Fe)	≤ 0.05%
Calcium (Ca)	≤ 0.3%
Magnesium (Mg)	≤ 0.3%
Lead (Pb)	≤ 10 ppm
Copper (Cu)	≤ 5 ppm
Zinc (Zn)	≤ 5 ppm

4. Key Features

- **High Bioavailability:** Significantly more soluble and efficient than manganese oxide (MnO) sources.
 - **Chlorophyll Support:** Essential for photosynthesis and enzyme activation in corn and soybeans.
 - **Purity & Safety:** Low heavy metal content (Pb, Cu, Zn) ensures safe agricultural use.
 - **Nutrient Balance:** Controlled levels of Fe, Ca, and Mg to prevent nutrient antagonism.
 - **Versatility:** Consistent particle size for uniform dispersion in fertilizer blends.
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5. Applications

- **Corn Cultivation:** Corrects Mn deficiency to improve photosynthesis and yield performance.
 - **Soybean Production:** Supports nitrogen metabolism and enzyme activity.
 - **Foliar Spray:** Rapid absorption during critical growth stages due to high solubility ($\geq 99\%$).
 - **Soil Application:** Provides long-term Mn supplementation in Mn-deficient or alkaline soils.
 - **Fertilizer Blending:** Compatible with NPK and other trace element premixes.
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6. Packaging & Supply

- **Standard Packaging:** 25 kg kraft paper bags with PE liner.
 - **Logistics:** Palletized for export; available in 20GP / 40HQ container shipments.
 - **Storage:** Store in a dry, ventilated environment to prevent moisture absorption and caking.
 - **Samples:** Available for agronomic testing upon request.
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Disclaimer: The information provided in this Technical Data Sheet is based on our current knowledge and experience. Users should conduct their own tests to determine the suitability of the product for their specific purposes.