

Technical Data Sheet (TDS)

Manganese Sulfate ($\text{MnSO}_4 \cdot \text{H}_2\text{O}$)

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1. Product Description

Bulk Manganese Sulfate for Micronutrient Fertilizer Blending provides a stable and water-soluble manganese source with a typical manganese (Mn) content of 31–32%. It is specifically designed for large-scale fertilizer production, including NPK blending and foliar formulations. The product features controlled impurity levels, ensuring compatibility with various multi-nutrient systems and meeting stringent regulatory compliance standards for heavy metals.

2. Key Features

- High Mn Content:** Ensures consistent micronutrient delivery in fertilizer blends.
- Controlled Impurity Levels:** Low levels of Iron (Fe), Calcium (Ca), and Magnesium (Mg) prevent nutrient antagonism in soil and solution, enhancing overall fertilizer efficiency.

- **Low Heavy Metals:** Strict control over heavy metals such as Lead ($\text{Pb} \leq 10$ ppm), Copper ($\text{Cu} \leq 5$ ppm), and Zinc ($\text{Zn} \leq 5$ ppm) supports regulatory compliance for fertilizers and minimizes environmental impact.
- **Uniform Particle Size:** An optimized particle size of 80–200 mesh (customizable) facilitates efficient and homogeneous blending in bulk fertilizer production.
- **Versatile Application:** Optimized for use in NPK and compound fertilizer systems, offering flexibility in various agricultural applications.

3. Technical Specifications

Parameter	Typical Value
$\text{MnSO}_4 \cdot \text{H}_2\text{O}$ Purity	$\geq 98\%$
Manganese (Mn) Content	31–32%
Moisture	$\leq 0.5\%$
Particle Size	80–200 mesh (customizable)
Bulk Density	0.9–1.3 g/cm ³
Iron (Fe)	$\leq 0.05\%$
Calcium (Ca)	$\leq 0.3\%$
Magnesium (Mg)	$\leq 0.3\%$
Lead (Pb)	≤ 10 ppm
Copper (Cu)	≤ 5 ppm
Zinc (Zn)	≤ 5 ppm

4. Applications

- **NPK Fertilizer Production:** Serves as a stable manganese source for granular and powder blending, crucial for balanced plant nutrition.

- **Foliar Fertilizers:** Its high water solubility makes it ideal for spray formulations, allowing for rapid nutrient uptake through leaves.
- **Micronutrient Premix:** Provides a consistent trace element input in multi-nutrient systems, ensuring comprehensive crop health.
- **Soil Application Fertilizers:** Effectively corrects manganese deficiency in various crops, particularly in alkaline soils where manganese availability is often limited.
- **Large-Scale Fertilizer Manufacturing:** Designed for seamless integration into large-scale production processes, ensuring efficiency and cost-effectiveness.

5. Packaging & Supply

- **Standard Packaging:** Available in 25 kg kraft paper bags with a PE liner, offering robust protection and ease of handling.
- **Bulk Supply:** For larger requirements, 1 MT jumbo bags are available, providing an economical and efficient bulk packaging solution.
- **Export Packaging:** All products are supplied with palletized export packaging, ensuring secure and compliant international shipping.
- **Shipment Options:** Flexible shipment options include 20GP and 40HQ container shipments to meet diverse logistical needs.
- **Samples:** Samples are available upon request for formulation testing and quality verification.