

Technical Datasheet (TDS)

Feed Grade Manganese Sulfate Monohydrate (Mn 31.8%)

Company Information

Company Name: BTLnewmaterial

Email: lixifirm@outlook.com

Phone/WhatsApp: +8618273793022

Website: manganesesupply.com

Address: Room 706, No. 154, Wuyi East Road, Niezhou Residential Committee, Caizichi Sub-district Office, Leiyang City, Hengyang City, Hunan Province, China

1. Product Description

Feed Grade Manganese Sulfate Monohydrate (Mn 31.8%) is a high-purity trace mineral source specifically designed for animal feed applications. It provides consistent manganese content with strictly controlled impurities, making it ideal for premix manufacturing and livestock nutrition. It is widely utilized in poultry, swine, and aquaculture feed formulations to support essential biological functions.

2. Technical Specifications

Parameter	Specification (Typical Value)
Chemical Formula	$\text{MnSO}_4 \cdot \text{H}_2\text{O}$
Appearance	Light pink powder or granular
$\text{MnSO}_4 \cdot \text{H}_2\text{O}$ Purity	$\geq 98\%$
Manganese (Mn) Content	$\geq 31.8\%$
Moisture	$\leq 0.5\%$
Particle Size	100–200 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
Arsenic (As)	≤ 5 ppm
Cadmium (Cd)	≤ 5 ppm
Copper (Cu)	≤ 5 ppm
Zinc (Zn)	≤ 5 ppm

3. Key Features

- **High Bioavailability:** Significantly higher absorption rates compared to manganese oxide (MnO).
- **Consistency:** Stable manganese content ensures reliable trace mineral supplementation.
- **Purity Control:** Minimized levels of Fe, Ca, and Mg to maintain optimal mineral balance.

- **Safety:** Low heavy metal content (Pb, As, Cd) compliant with international feed safety standards.
- **Excellent Mixability:** Uniform particle size distribution ensures superior blending performance in premixes.

4. Applications

- **Poultry Feed:** Essential for bone formation, eggshell quality, and enzyme activation.
- **Swine Feed:** Improves reproductive performance, growth efficiency, and structural integrity.
- **Aquaculture:** Enhances antioxidant enzyme systems and shell development in aquatic species.
- **Premix Production:** Serves as a reliable manganese source for concentrated mineral and vitamin premixes.

5. Packaging & Supply

- **Standard Packaging:** 25 kg kraft paper bags with PE inner liner.
- **Bulk Options:** 1000 kg or 1200 kg jumbo bags available upon request.
- **Shipping:** Available in 20GP / 40HQ container shipments, palletized for export.
- **Storage:** Store in a cool, dry, and well-ventilated area. Keep containers tightly closed to prevent moisture absorption and caking.

Disclaimer: The information provided in this TDS 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.