

Technical Datasheet (TDS)

High Bioavailability Manganese Sulfate Additives for Feed (Mn 31.8%)

Company Information

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1. Product Description

High Bioavailability Manganese Sulfate Additives for Feed provide a highly soluble and efficient manganese source (Mn \geq 31.8%) for animal nutrition. This product is engineered to ensure superior absorption compared to traditional oxide sources, supporting consistent and high-performance premix formulations. It is suitable for a wide range of applications including poultry, swine, ruminant, and aquaculture feed.

2. Technical Specifications

Parameter	Specification (Typical Value)
Chemical Formula	MnSO ₄ · H ₂ O
Appearance	Light pink powder or granular
MnSO ₄ · H ₂ O Purity	≥ 98%
Manganese (Mn) Content	≥ 31.8%
Moisture (LOH)	10–13%
Particle Size	100–200 mesh (Customizable)
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
Arsenic (As)	≤ 5 ppm
Cadmium (Cd)	≤ 5 ppm
Copper (Cu)	≤ 5 ppm
Zinc (Zn)	≤ 5 ppm

3. Key Features

- **Superior Solubility:** Highly water-soluble form ensures maximum bioavailability in the animal digestive tract.
- **Stable Mn Content:** Guaranteed minimum 31.8% manganese content for precise and consistent feed formulation.
- **Antagonism Prevention:** Controlled levels of Fe, Ca, and Mg minimize mineral interference and maximize nutrient uptake.

- **Feed Safety:** Low heavy metal content (Pb, Cd, As) fully compliant with international feed safety regulations.
- **Processing Efficiency:** Uniform particle size (100–200 mesh) facilitates efficient blending and uniform distribution in premixes.

4. Applications

- **Poultry Nutrition:** Supports critical functions such as bone formation, eggshell quality, and enzyme activation.
- **Swine Diets:** Enhances growth performance, reproductive health, and structural integrity.
- **Ruminant Feed:** Contributes to metabolic enzyme systems and overall reproductive efficiency.
- **Aquaculture:** Supports antioxidant functions and healthy shell development in aquatic species.
- **Premix & Compound Feed:** Acts as a reliable and stable manganese source for all types of mineral premixes and compound feed production.

5. Packaging & Supply

- **Standard Packaging:** 25 kg kraft paper bags with PE inner liner.
- **Export Options:** Palletized for safe international transport.
- **Logistics:** Available in 20GP / 40HQ container shipments.
- **Storage:** Store in a cool, dry, and ventilated environment. Keep containers tightly sealed to prevent moisture absorption and maintain product stability.

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.