

Technical Datasheet (TDS)

Low Heavy Metal Manganese Sulfate for Poultry Premixes (Mn 31.8%)

Company Information

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1. Product Description

Low Heavy Metal Manganese Sulfate for Poultry Premixes is a premium feed-grade $\text{MnSO}_4 \cdot \text{H}_2\text{O}$ specifically formulated for poultry nutrition. With a minimum manganese content of 31.8% and stringent heavy metal controls, this product ensures high bioavailability and safe inclusion in high-performance poultry diets. It is an essential trace mineral source for broiler and layer premixes, supporting optimal growth and metabolic health.

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	≤ 1.0%
Particle Size	60–100 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 Bioavailability:** Offers higher absorption rates than manganese oxide, maximizing nutritional efficiency.
- **Stringent Heavy Metal Control:** Strictly controlled Lead (Pb) and Arsenic (As) levels to meet international feed safety standards.
- **Optimized Mineral Balance:** Low levels of Fe, Ca, and Mg prevent interference with other nutrients in the premix.

- **Uniform Blending:** Consistent particle size (60–100 mesh) ensures even distribution and prevents segregation in feed formulations.
- **Stable Performance:** Maintains consistent quality for reliable large-scale feed production.

4. Applications

- **Poultry Premixes:** Essential for bone development, eggshell quality, and metabolic enzyme activation in broilers and layers.
- **Growth Performance:** Enhances feed conversion ratios and overall growth efficiency in poultry diets.
- **Mineral Premix Production:** Ideal as a standardized Mn source for high-quality mineral and vitamin concentrates.
- **Multi-Species Nutrition:** Also suitable for swine and ruminant trace mineral supplementation requiring low heavy metal profiles.

5. Packaging & Supply

- **Standard Packaging:** 25 kg kraft paper bags with PE inner liner.
- **Export Options:** Palletized packaging for safe international shipment.
- **Container Loads:** Available in 20GP / 40HQ container shipments.
- **Storage:** Store in a dry, well-ventilated environment away from moisture. Keep containers tightly closed to prevent caking and maintain flowability.

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.