

Technical Data Sheet (TDS)

Manganese Oxide 62% for Animal Mineral Premixes

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1. Product Description

Manganese Oxide 62% for Animal Mineral Premixes is a high-quality, feed-grade manganese source specifically developed as a trace mineral additive for livestock and aquaculture feed. This product typically contains **60–62% elemental manganese (Mn)**, making it an efficient and concentrated source for mineral premix formulations. Its primary role is to support essential metabolic functions, promote healthy bone development, and enhance enzyme activity in various animal species, contributing to overall animal health and productivity.

2. Technical Specifications

The following table details the key technical parameters and chemical properties of Manganese Oxide 62% for Animal Mineral Premixes:

Parameter	Typical Value
MnO Purity	≥ 90–95%
Manganese (Mn) Content	≥ 60–62%
Particle Size	80–200 mesh
Moisture	≤ 1.5%
Bulk Density	1.0–1.5 g/cm ³
Solubility in 2% Citric Acid	≥ 85–90%
Arsenic (As)	≤ 5 ppm
Lead (Pb)	≤ 10 ppm
Cadmium (Cd)	≤ 5 ppm

3. Key Features

- **High Manganese Concentration:** Provides an efficient and potent trace mineral source, optimizing feed formulations with lower inclusion rates.
- **Consistent Manganese Supply:** Ensures a stable and reliable manganese input for livestock nutrition, crucial for maintaining animal health.
- **High Bioavailability:** Exhibits strong solubility in digestive acids, leading to effective absorption and utilization of manganese by animals.
- **Low Heavy Metal Contamination:** Produced with stringent quality controls to meet feed safety compliance requirements, minimizing risks from heavy metals.
- **Stable Particle Size Distribution:** Optimized particle size ensures homogeneous blending within premixes, preventing segregation and ensuring uniform nutrient distribution.
- **Good Dispersion Performance:** Facilitates excellent dispersion in compound feed and mineral premix systems, enhancing the overall quality and efficacy of the feed.

4. Applications

Manganese Oxide 62% for Animal Mineral Premixes is widely utilized across various animal nutrition sectors:

- **Livestock Feed Premix:** Serves as an essential manganese source for enzyme activation and skeletal development in cattle, swine, and other livestock.
- **Poultry Nutrition:** Crucial for supporting robust eggshell formation, maintaining bone strength, and facilitating metabolic processes in poultry diets.
- **Swine Feed Formulations:** Helps in sustaining normal growth rates, improving reproductive performance, and ensuring optimal enzyme activity in pigs.
- **Cattle and Ruminant Nutrition:** Contributes significantly to bone development and reproductive health in cattle and other ruminants.
- **Aquaculture Feed:** Provides vital trace mineral supplementation necessary for healthy fish growth and efficient metabolic functions in aquatic species.
- **Mineral Premix Manufacturing:** Offers a stable and concentrated trace mineral component for the production of high-quality mineral premixes.

5. Packaging & Supply

The product is available in standard **25 kg kraft paper bags with an inner PE liner**, designed to protect the product from moisture and ensure its integrity during storage and transport. For larger volume requirements, **500–1000 kg jumbo bags** are also available. All packaging is suitable for international export and can be palletized for efficient shipment. Container shipment options are provided for bulk procurement. Additionally, **samples are available** for feed formulation and premix testing to ensure product compatibility and performance.