

# Technical Data Sheet (TDS)

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## Feed Grade Manganese Oxide (MnO) 60% Powder for Animal Nutrition

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### 1. Product Description

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Feed Grade Manganese Oxide (MnO) 60% Powder is a manganese supplement specifically designed for use in livestock and poultry feed formulations. With a typical manganese content of around 60%, it serves as a stable and cost-effective source of manganese for premixes and compound feeds. This material is widely utilized by feed manufacturers to support optimal animal growth and maintain mineral balance within animal diets.

### 2. Technical Specifications

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The following table outlines the key technical parameters of Feed Grade Manganese Oxide (MnO) 60% Powder:

Parameter	Typical Value
MnO Purity	≥ 60%
Manganese (Mn) Content	≥ 46–47%
Particle Size	80–200 mesh
Moisture	≤ 1.5%
Bulk Density	1.0–1.5 g/cm <sup>3</sup>
Solubility in 2% Citric Acid	≥ 85–90%
Arsenic (As)	≤ 5 ppm
Lead (Pb)	≤ 10 ppm
Cadmium (Cd)	≤ 5 ppm

### 3. Key Features

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- High manganese content, making it highly suitable for mineral premix production.
- Possesses a stable crystal structure, ensuring consistent manganese availability to animals.
- Characterized by low impurity levels, which helps in maintaining the stability and safety of feed formulations.
- Controlled particle size facilitates improved dispersion and homogeneous blending in feed premixes.
- Offers a cost-effective manganese source, ideal for large-scale feed manufacturing operations.
- Versatile for use in various animal feed supplements, including those for livestock, poultry, and aquaculture.

### 4. Applications

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Feed Grade Manganese Oxide (MnO) 60% Powder is widely applied in:

- **Livestock Mineral Premixes:** Utilized as a primary manganese source in feed formulations for cattle and swine.
- **Poultry Feed Production:** Essential for supporting bone development, enhancing enzyme activity, and optimizing metabolic functions in poultry diets.
- **Aquaculture Feed Additives:** Provides crucial manganese for the nutritional systems of fish and shrimp.
- **Feed Additive Manufacturing:** Incorporated into compound feed and mineral premixes to ensure a balanced supply of trace elements.
- **Animal Nutrition Supplements:** Employed by feed manufacturers to maintain consistent manganese levels in commercial feed products.

## 5. Packaging & Supply

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The product is supplied in standard **25 kg kraft paper bags with a PE inner liner**, designed for durability and protection during transit. It is suitable for international export and is available for palletized shipment. Bulk supply options are also available to cater to the needs of large-scale feed manufacturers and premix plants. Laboratory samples can be provided for comprehensive feed formulation testing.