

TECHNICAL DATASHEET (TDS)

Feed Grade Manganese Carbonate (MnCO₃) 43-44% Mn

High Bioavailability Mineral Supplement for Animal Feed & Premixes

1. COMPANY INFORMATION

Company Name	BTLnewmaterial
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2. PRODUCT DESCRIPTION

Feed Grade Manganese Carbonate (MnCO₃) is a premium-quality mineral source designed for animal nutrition. It is a light pink to light brown fine powder that serves as an essential trace element supplement in livestock, poultry, and aquaculture diets. Due to its superior solubility in digestive conditions compared to manganese oxide (MnO), it offers higher bioavailability, ensuring efficient absorption and utilization by animals for optimal growth, bone development, and reproductive health.

3. KEY FEATURES

- **Optimal Bioavailability:** Enhances manganese absorption in the animal digestive tract.

- **High Purity:** Guaranteed manganese content of 43-44% with minimal impurities.
- **Strict Heavy Metal Control:** Rigorous testing ensures compliance with international feed safety standards (Pb, As, Cd, Hg).
- **Excellent Flowability:** Fine particle size distribution (typically 325 mesh) for uniform mixing in mineral premixes.

4. TECHNICAL SPECIFICATIONS

4.1 Chemical Composition

Parameter	Specification	Typical Value
Manganese (Mn)	43.0% - 44.5%	44.2%
Iron (Fe)	≤ 0.05%	0.03%
Sulfate (SO ₄)	≤ 0.05%	0.04%
Chloride (Cl)	≤ 0.05%	0.03%
Water Insoluble	≤ 0.1%	0.06%
Lead (Pb)	≤ 10 ppm	< 5 ppm
Arsenic (As)	≤ 5 ppm	< 2 ppm
Cadmium (Cd)	≤ 5 ppm	< 1 ppm
Mercury (Hg)	≤ 0.1 ppm	< 0.01 ppm

4.2 Physical Properties

Property	Description
Appearance	Light pink to light brown fine powder
Particle Size	≥ 95% passing 325 mesh (45 μm)
Odor	Odorless
Molecular Weight	114.95 g/mol
CAS Number	598-62-9
pH (1% solution)	6.0 - 8.5
Bulk Density	0.9 - 1.3 g/cm ³

5. APPLICATIONS

- **Animal Feed Additive:** Directly added to feed formulations for swine, poultry, cattle, and aquatic species.
 - **Mineral Premixes:** A core ingredient in the production of concentrated mineral and vitamin-mineral premixes.
 - **Nutritional Supplement:** Prevents perosis in poultry and supports skeletal development and enzymatic functions in livestock.
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6. PACKAGING & SUPPLY

- **Standard Packaging:** 25kg, 50kg, or 1000kg (Jumbo) woven bags with moisture-proof PE inner liners.
 - **Storage:** Store in a dry, well-ventilated warehouse. Protect from moisture, rain, and direct sunlight to prevent caking.
 - **Shelf Life:** 24 months from the date of manufacture when stored in original, unopened packaging.
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Disclaimer: The information provided in this Technical Datasheet 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 and ensure compliance with local feed regulations.