

TECHNICAL DATASHEET (TDS)

Manganese Carbonate (MnCO₃) 43-44% Mn

For Soil Amendment and Agricultural Use

1. COMPANY INFORMATION

Company Name	BTLnewmaterial
Website	manganesesupply.com
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2. PRODUCT DESCRIPTION

Manganese Carbonate (MnCO₃) is a high-purity, pale pink to light brown powder specifically formulated for agricultural and industrial applications. As a crucial source of manganese, it is widely utilized as a soil amendment to rectify manganese deficiencies in various crops. Its slow-release characteristics ensure long-term nutrient availability, making it superior to highly soluble alternatives for sustainable soil health.

3. KEY FEATURES

- High Manganese Content:** Guaranteed 43-44% Mn content for efficient nutrient delivery.

- **Slow Release:** Provides a steady supply of manganese, reducing leaching and ensuring long-term plant uptake.
- **Low Impurities:** Controlled levels of iron (Fe), chlorides (Cl), and sulfates (SO₄) to maintain soil nutrient balance.
- **Safety Compliance:** Low heavy metal concentrations (Pb, As, Cd) meeting international agricultural safety standards.

4. TECHNICAL SPECIFICATIONS

4.1 Chemical Composition

Parameter	Specification	Typical Value
Manganese (Mn)	43.0% - 44.5%	44.3%
Iron (Fe)	≤ 0.01%	0.008%
Sulfate (SO ₄)	≤ 0.02%	0.015%
Chloride (Cl)	≤ 0.02%	0.015%
Water Insoluble	≤ 0.05%	0.03%
Arsenic (As)	≤ 5 ppm	< 2 ppm
Lead (Pb)	≤ 10 ppm	< 5 ppm
Cadmium (Cd)	≤ 5 ppm	< 1 ppm

4.2 Physical Properties

Property	Description
Appearance	Pale pink to light brown powder
Odor	Odorless
Molecular Weight	114.95 g/mol
CAS Number	598-62-9
Solubility	Insoluble in water and alcohol; soluble in dilute acids
pH (1% solution)	6.0 - 8.0
Bulk Density	0.8 - 1.2 g/cm ³

5. APPLICATIONS

- **Agriculture:** Used as a soil amendment and fertilizer additive to treat manganese-deficient soils, particularly in alkaline or high-organic-matter environments.
 - **Animal Feed:** Serves as a micronutrient supplement in livestock and poultry feed formulations.
 - **Industrial:** Utilized as a pigment in ceramic glazes, a drier for varnishes, and a precursor for other manganese chemicals.
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6. PACKAGING & SUPPLY

- **Standard Packaging:** 25kg, 50kg, or 1000kg (Jumbo) woven bags with high-quality PE inner liners.
 - **Storage:** Store in a cool, dry, and well-ventilated area. Keep containers tightly closed and away from moisture and incompatible substances such as strong acids.
 - **Shelf Life:** 24 months from the date of manufacture when stored under recommended conditions.
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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.