

BTL New Material - Product Catalog & Company Profile

About Us

BTL New Material, located in Hunan Province, China, is a leading manufacturer and supplier specializing in high-quality manganese products. With years of industry experience and a commitment to innovation, we utilize advanced production technology and strict quality control processes to ensure that our products meet the highest international standards.

Our self-owned mineral resources and state-of-the-art facilities enable us to maintain stable supply and consistent product performance. Serving a diverse range of industries such as battery manufacturing, steel production, and water treatment, BTL New Material has earned a strong reputation for reliability and excellence in both domestic and global markets.

We are dedicated to providing customized solutions and responsive service to meet the unique needs of our clients worldwide.

Contact Information

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Product Catalog

1. Manganese Dioxide (MnO_2)

Manganese Dioxide is a premium high-purity powder widely used in batteries and industrial applications. We offer battery grade, technical grade, and pigment grades.

Feature	Description
Product Name	Manganese Dioxide
Purity (MnO_2)	30% - 92%
Mesh Size	100 - 300 mesh
Appearance	Black amorphous powder or black orthorhombic crystals
CAS Number	1313-13-9
Solubility	Poorly soluble in water; soluble in hot concentrated HCl
Packaging	25kg, 50kg, or Tonnage Bags

Applications:

- Battery Industry:** Depolarizer for dry cell and alkaline batteries.
- Glass & Ceramics:** Colorant, decolorant, and de-ironing agent.
- Chemical Industry:** Catalyst and oxidizing agent in synthetic processes.
- Metallurgy:** Manufacturing of metallic manganese and special alloys.
- Water Treatment:** High-performance filter medium for metal removal.

2. Manganese Carbonate (MnCO_3)

Our high-purity Manganese Carbonate is engineered for exceptional consistency, ideal for batteries, ceramics, and nutrition.

Property	Specification
Product Name	Manganese Carbonate
Chemical Formula	MnCO_3
Mn Content	41.5% – 44%
Particle Size	100 – 400 mesh
Appearance	Light pink to light brown powder
Packaging	25kg inner/outer bag, or Ton bag

Applications:

- **Electronics:** Soft magnetic ferrites for electronic components.
- **Chemicals:** Raw material for synthesizing MnO_2 and other manganese salts.
- **Industrial:** Catalyst for desulfurization; pigment for ceramics and paints.
- **Agriculture:** Feed and fertilizer additive.
- **Metallurgy:** Coating agent for welding electrodes.

3. Manganese Sulfate ($\text{MnSO}_4 \cdot \text{H}_2\text{O}$)

Manganese Sulfate Monohydrate is a light pink to white crystalline powder, essential for agriculture and industrial use.

Parameter	Specification
Chemical Formula	$\text{MnSO}_4 \cdot \text{H}_2\text{O}$
Molecular Weight	169.02 g/mol
Mn Content	≥ 31.8%
Purity	≥ 99%
Moisture	≤ 0.5%
Appearance	Light Pink / White Powder
Packaging	25kg woven bags / jumbo bags

Applications:

- **Agriculture:** Micronutrient fertilizer to promote crop growth and improve yields.
- **Animal Feed:** Trace element supplement for livestock and poultry health.
- **Industry:** Raw material for electrolytic manganese, paint driers, and ceramic coloring.
- **Batteries:** Precursor for lithium battery cathode materials.

4. Manganese Monoxide (MnO)

Manganese (II) Oxide is a high-purity green powder used in advanced electronics and chemical synthesis.

Property	Specification
Product Name	Manganese(II) Oxide
Molecular Formula	MnO
Purity	≥ 99.5%
Particle Size	10µm average
Appearance	Gray-green powder / octahedral crystals
CAS Number	1344-43-0
Packaging	25 kg/cardboard drum

Applications:

- **Batteries:** Precursor for cathode materials in lithium-ion batteries.
- **Electronics:** Manufacturing of soft ferrites for transformers and antennas.
- **Catalysts:** Effective catalyst in organic synthesis and oxidation reactions.
- **Ceramics & Glass:** Colorant and flux agent to improve thermal resistance.
- **Metallurgy:** Deoxidizer and alloying agent in steelmaking.

5. Manganese Sand Filter Media

Manganese sand is a high-performance filter media used for catalytic oxidation to remove iron and manganese from water.

Item	Details
Product Name	Manganese Sand Filter Media
MnO₂ Content	30% - 45%
Particle Size	0.6 - 1.2mm (Customizable)
Appearance	Granular, dark brown in color
Density	3.4 g/cm ³
Packaging	50kg bulk bag or Ton bag

Applications:

- **Water Treatment:** Removal of iron (Fe²⁺) and manganese (Mn²⁺) from groundwater, wells, and tap water.
- **Industrial Use:** Wastewater treatment in food, beverage, papermaking, and brewing industries.
- **Recreational:** Purification of water in swimming pools and hot springs.
- **Catalysis:** Catalyst in oxidation reactions and petrochemical processes.

Key Features:

- High surface area and strong filtration capacity.
- Excellent catalytic oxidation performance.
- Low backwash loss rate and long service life (3-5 years).

BTL New Material - Your Trusted Partner in Manganese Products. For more information or a custom quote, please visit our website or contact us directly.