

TECHNICAL DATASHEET (TDS)

Product Name: Manganese Sand Filter Media 35% MnO₂

Application: Potable Water Treatment & Groundwater Purification

1. COMPANY INFORMATION

Field	Details
Company Name	BTLnewmaterial
Address	Room 706, No. 154, Wuyi East Road, Niezhou Residential Committee, Caizichi Sub-district Office, Leiyang City, Hengyang City, Hunan Province, China
Email	lixifirm@outlook.com
Phone/WhatsApp	+86 18273793022
Website	manganesesupply.com

2. PRODUCT DESCRIPTION

Manganese Sand Filter Media with 35% MnO₂ content is a high-performance filtration material specifically designed for potable water treatment and groundwater purification. It utilizes the catalytic properties of natural manganese dioxide to effectively oxidize and remove dissolved iron and manganese, ensuring stable and high-quality water output for municipal and industrial systems.

3. TECHNICAL SPECIFICATIONS

Parameter	Typical Value
MnO ₂ Content	35% ± 2%
SiO ₂ Content	Balance
Bulk Density	1.5 – 1.8 g/cm ³
Particle Size	0.5–1 mm / 1–2 mm / 2–4 mm (Customizable)
Uniformity Coefficient	≤ 1.6
Crush Rate	≤ 2%
Wear Rate	≤ 1.5%
Porosity	≥ 40%
Iron Removal Efficiency	≥ 90%
Manganese Removal Efficiency	≥ 85%
Appearance	Dark Brown / Black Granules

4. KEY FEATURES

- **High Catalytic Activity:** 35% MnO₂ content ensures strong and rapid catalytic oxidation of dissolved metals.
 - **Superior Removal Efficiency:** Specifically optimized for the dual removal of iron and manganese.
 - **Physical Durability:** High mechanical strength with low crush and wear rates for extended service life.
 - **Consistent Performance:** Provides stable filtration even under varying water quality conditions.
 - **Optimized Backwashing:** Uniform particle size distribution ensures effective cleaning and low head loss.
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5. APPLICATIONS

- **Groundwater Treatment:** Removal of dissolved iron and manganese from well water.
 - **Municipal Water Plants:** Large-scale purification for potable water compliance.
 - **Industrial Water Systems:** Pre-treatment for boiler feed water, cooling systems, and process water.
 - **Residential Filtration:** Point-of-entry systems for clean drinking water.
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6. PACKAGING & SUPPLY

- **Standard Packaging:** 25 kg or 50 kg woven bags with PE liner.
 - **Bulk Packaging:** 1,000 kg or 1,250 kg Jumbo bags (Super Sacks).
 - **Palletization:** Export-standard heat-treated pallets with stretch wrapping.
 - **Samples:** Available upon request for testing and evaluation.
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7. STORAGE & HANDLING

- Store in a cool, dry, and well-ventilated area.
 - Keep bags sealed to prevent contamination and moisture absorption.
 - Avoid direct sunlight and contact with strong acids or oxidizing agents.
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Disclaimer: The information provided in this 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 application.