Manganese Sand Filter Media
Technical Data Sheet (TDS)

1. Product Description

Manganese Sand Filter Media is a natural filter material developed from high-quality manganese ore. It features a rough and porous surface with strong catalytic oxidation and adsorption capacity, effectively removing iron (Fe^{2+}), manganese (Mn^{2+}), arsenic, hydrogen sulfide, and other dissolved metals from groundwater. The material acts both as a filtration and oxidation medium, improving water clarity and eliminating unpleasant color, taste, and odor. It is widely used in drinking water plants, industrial water applications, and groundwater treatment systems.

2. Typical Physical & Chemical Properties

Item	Unit	Typical Value
MN Content (MnO_2)	%	≥ 35
Bulk Density	g/cm^3	1.8–2.0
Effective Size (D10)	mm	0.7–1.2 (customizable)
Uniformity Coefficient (UC)	–	≤ 1.7
Moisture	%	≤ 0.5
Mechanical Strength	%	≥ 90
Acid Solubility	%	≤ 1.0
Color & Appearance	–	Dark brown to black, granular

3. Applications

- Groundwater treatment for Fe and Mn removal
- Drinking water treatment systems
- Industrial process water and wastewater filtration
- Iron and manganese removal filter beds
- Pre-treatment for RO and ion exchange systems

4. Packaging & Storage

Commonly packed in 25 kg woven bags or 1000 kg jumbo bags; bulk delivery available. Store in a cool and well-ventilated area, away from acidic or reducing substances. Prevent prolonged exposure to moisture to maintain activity and performance.

5. Quality & Compliance

Produced under ISO 9001–certified quality management system, tested according to GB/T and AWWA B100 standards. Each batch undergoes strict screening for MnO_2 content, grain size distribution, and filtration performance.

6. Remark

The technical information above provides reference values for typical properties. Actual performance may vary depending on application and operating conditions. Henan CarbonFresh Activated Carbon Co., Ltd. reserves the right to update specifications without prior notice.

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