

Technical Datasheet: Manganese Oxide for Color Control in Green Glass Containers

Company Information

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Product Description

Manganese Oxide (MnO) is a high-purity coloring agent specifically optimized for the production of green glass containers. It ensures precise color control, uniform tint, and exceptional batch-to-batch consistency, making it ideal for the container glass industry.

Key Features

- **Precise Color Control:** Optimized manganese content (60-65%) for consistent green tinting.
- **Uniform Dispersion:** High-purity formulation ensures even distribution within the glass melt.

- **Strict Impurity Control:** Low levels of Arsenic, Lead, and Cadmium for safety and regulatory compliance.
- **Customizable Particle Size:** Tailored to meet specific blending requirements for different glass batches.

Technical Specifications

Chemical Composition

Parameter	Specification
Manganese (Mn)	60% – 65%
Arsenic (As)	≤ 5 ppm
Lead (Pb)	≤ 10 ppm
Cadmium (Cd)	≤ 5 ppm
Iron (Fe)	< 0.1% (Typical)

Physical Properties

Property	Value
Appearance	Dark Brown to Black Powder
Odor	Odorless
Particle Size	Customizable (e.g., 200-325 mesh)
Bulk Density	Approx. 1.8 - 2.1 g/cm ³
Melting Point	~1,564°C (2,847°F)
Solubility in Water	Insoluble

Applications

- Color control in green glass containers (bottles, jars).

- Tinting agent for architectural and decorative glass.
- Decolorizing agent in specialized glass formulations.
- Enhancing UV protection in green glass packaging.

Packaging & Supply

- **Packaging:** Standard 25kg or 50kg bags, or customized bulk bags (1000kg).
 - **Storage:** Store in a dry, cool, and well-ventilated area away from moisture and contaminants. Keep bags sealed to prevent caking.
 - **Shelf Life:** Typically exceeds 12 months under proper storage conditions.
 - **Supply Ability:** Stable global supply with technical support for glass batch optimization.
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Disclaimer: The information provided in this TDS is based on our current knowledge and experience. Users should conduct their own tests to determine the suitability of the product for their specific glass production process.