

Technical Datasheet

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Product Name

Battery Grade MnO₂ 91% for Zinc-Carbon Cells

Product Description

Battery Grade MnO₂ 91% for Zinc-Carbon Cells is a chemically synthesized manganese dioxide designed for dry cell battery cathodes. It features controlled purity, stable discharge performance, and consistent particle size suitable for mass production of zinc-carbon batteries.

Technical Specifications

Item	Typical Value
MnO ₂ Content	≥ 91.0%
MnO ₂ Crystal Form	γ-MnO ₂ dominant
Mn (total)	≥ 63.0%
Fe	≤ 0.05%
Pb	≤ 0.02%
Cu	≤ 0.01%
Moisture	≤ 2.5%
pH (5% slurry)	5.5 – 7.0
Particle Size (D50)	20 – 35 μm
Apparent Density	1.8 – 2.3 g/cm ³

Key Features

- Stable electrochemical activity optimized for zinc-carbon cell discharge curves
- Controlled impurity levels to reduce self-discharge and gas generation
- Uniform particle size for consistent cathode mixing and molding
- Good flowability and packing density for automated battery lines
- Reliable performance of **Battery Grade MnO₂ 91% for Zinc-Carbon Cells** across batch production

Applications

- Zinc-carbon dry batteries for consumer electronics and household use
- R6 / R03 carbon-zinc cells requiring cost-effective cathode material
- OEM battery manufacturing using **Battery Grade MnO₂ 91% for Zinc-Carbon Cells** for standard discharge applications

Packaging & Supply

- 25 kg kraft paper bags with PE inner liner
- 500 kg / 1000 kg jumbo bags available
- Suitable for sea freight and long-term storage
- Stable export supply with batch-to-batch consistency

Customization & Technical Support

- Particle size and moisture content adjustable based on battery formulation
- Technical support for cathode mixing and process optimization
- Documentation support including COA, MSDS, and specification sheets