

Global Manganese Oxide Powder Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Manganese Oxide Powder market size is expected to reach \$ 2295 million by 2032, rising at a market growth of 5.9% CAGR during the forecast period (2026-2032).

Manganese oxide powders are inorganic manganese-oxygen compounds supplied in powder form, mainly including manganese dioxide (MnO₂), manganese(II) oxide (MnO), trimanganese tetroxide or manganese(II,III) oxide (Mn₃O₄), and selected high-purity, activated, modified, or nanoscale manganese oxides. Their oxidation state, crystal structure, purity, particle size, surface area, and impurity profile determine their redox behavior, electrochemical performance, color, magnetic-material precursor value, and end-use suitability. Manganese dioxide is widely used in dry-cell batteries, alkaline batteries, lithium manganese dioxide batteries, catalysts, oxidants, ceramics, glass, and water treatment. Manganese(II) oxide is used in animal feed, fertilizers, chemical synthesis, welding consumables, metallurgy, and selected battery precursor routes. Trimanganese tetroxide is mainly used in soft ferrites, electronic ceramics, and manganese-based battery material precursors. The value chain connects manganese ore, manganese salts, and hydrometallurgical processing with batteries, electronic materials, ceramics, glass, agriculture, feed, metallurgy, welding, water treatment, and specialty chemicals.

In 2025, the global production of manganese oxide powder is estimated at 1.3 million tons, with an average price of US\$1,150 per ton and a gross profit margin of 24%.

From a supply perspective, the market is characterized by Chinese strength in manganese chemical processing, selected overseas producers in battery and specialty grades, and Indian suppliers in feed, fertilizer, and chemical-grade products. China is

highly important in EMD, natural manganese dioxide, manganese tetroxide, and manganese-based battery materials, with representative companies such as Xiangtan Electrochemical, South Manganese, Guizhou Redstar, Guangxi Guiliu, QingChong, and Guizhou Dalong Huicheng. International and regional suppliers such as Tosoh, Borman, Vibrantz, American Elements, GoodEarth, and Manmohan serve battery, high-purity, ceramic, feed, chemical, and specialty powder applications. IMnI states that EMD and EMM production is mostly Chinese, while Xiangtan Electrochemical states that its main business includes electrolytic manganese dioxide and new energy battery materials, supporting China's central role in this supply chain.

Demand is led by batteries but remains diversified. Manganese dioxide is a long-established cathode material in zinc-carbon, alkaline, and lithium manganese dioxide batteries, and EMD is also linked to manganese-based rechargeable battery material routes. IMnI notes that batteries are the largest non-alloy market for manganese, with manganese usually used in the form of manganese dioxide and manganese sulphate as cathode materials. Outside batteries, Mn_2O_3 is used in soft ferrites and electronic ceramics, while MnO and MnO_2 are used in ceramics, glass, pigments, feed, fertilizers, welding, metallurgy, water treatment, and catalysts. GoodEarth and Manmohan list manganese oxide and manganese dioxide products for feed, fertilizer, chemical, and industrial uses, showing that non-battery markets remain an important demand base.

From a technology perspective, future upgrading will focus on higher purity, tighter particle-size control, lower impurity levels, battery-grade specifications, electronic-grade performance, and greener processing. Standard natural MnO_2 and feed-grade MnO are highly price-competitive and relatively mature, while battery-grade EMD, high-purity Mn_2O_3 , low-magnetic-impurity powders, nanoscale manganese oxides, and catalyst-grade manganese dioxide require stronger control of purification, crystal structure, surface area, and batch consistency. South Manganese describes Mn_2O_3 as an important material for high-grade Mn-Zn ferrite magnetic cores, and QingChong lists manganese dioxide, EMD, manganese tetroxide, and manganese oxide products across batteries, ceramics, glass, metallurgy, water treatment, feed, and fertilizers. This indicates that market growth will come less from raw manganese mining and more from higher-value battery, electronic, catalytic, and specialty powder applications.

This report studies the global Manganese Oxide Powder production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Manganese Oxide Powder and provides market size (US\$ million) and Year-over-Year

(YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Manganese Oxide Powder that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Manganese Oxide Powder total production and demand, 2021-2032, (Kilotons)

Global Manganese Oxide Powder total production value, 2021-2032, (USD Million)

Global Manganese Oxide Powder production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Manganese Oxide Powder consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Manganese Oxide Powder domestic production, consumption, key domestic manufacturers and share

Global Manganese Oxide Powder production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Manganese Oxide Powder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Manganese Oxide Powder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Manganese Oxide Powder market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Tosoh, Borman Specialty Materials, Vibrantz Technologies, American Elements, GoodEarth, Manmohan Minerals & Chemicals, Mine Ore Enterprises, Xiangtan Electrochemical Technology, South Manganese Investment, Guizhou Redstar Developing, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Manganese Oxide Powder market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by

year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Manganese Oxide Powder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Manganese Oxide Powder Market, Segmentation by Type:

Manganese Dioxide?MnO??

Manganese(II) Oxide?MnO?

Trimanganese Tetroxide?Mn?O??

Manganese(III) Oxide?Mn?O??

Mixed Manganese Oxide Powders

Global Manganese Oxide Powder Market, Segmentation by Product Grade:

Battery Grade Manganese Oxide Powder

Ferrite Grade Manganese Oxide Powder

Ceramic and Glass Grade Manganese Oxide Powder

Feed Grade Manganese Oxide Powder

Fertilizer Grade Manganese Oxide Powder

Chemical Grade Manganese Oxide Powder

High-purity/Research Grade Manganese Oxide Powder

Global Manganese Oxide Powder Market, Segmentation by Particle Size:

More than 100 μ m

10–100 μ m

1–10 μ m

100 nm–1 μ m

Less than 100 nm

Global Manganese Oxide Powder Market, Segmentation by Application:

Battery Manufacturing

Electronic Materials

Ceramics, Glass and Building Materials

Agriculture and Animal Nutrition

Metallurgy and Welding

Environmental and Water Treatment

Others

Companies Profiled:

Tosoh

Borman Specialty Materials

Vibrantz Technologies

American Elements

GoodEarth

Manmohan Minerals & Chemicals

Mine Ore Enterprises

Xiangtan Electrochemical Technology

South Manganese Investment

Guizhou Redstar Developing

Guangxi Guiliu New Material

Hunan QingChong New Materials

Guizhou Dalong Huicheng New Material

Hunan Shunlong Energy

Xinyi Feihuang Chemical

Shanghai Liangjiang Titanium White Product

Anhui Fitech Materials

SAT Nano Technology Material

EVRYL Advanced Materials

Vishnupriya Chemicals

Vstake Overseas

Altichem

Key Questions Answered:

1. How big is the global Manganese Oxide Powder market?
2. What is the demand of the global Manganese Oxide Powder market?
3. What is the year over year growth of the global Manganese Oxide Powder market?
4. What is the production and production value of the global Manganese Oxide Powder market?
5. Who are the key producers in the global Manganese Oxide Powder market?
6. What are the growth factors driving the market demand?

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