

Global Manganese Oxide Powder Market Growth 2026-2032

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Abstracts

The global Manganese Oxide Powder market size is predicted to grow from US\$ 1462 million in 2025 to US\$ 2227 million in 2032; it is expected to grow at a CAGR of 6.2% from 2026 to 2032.

Manganese oxide powders are inorganic manganese-oxygen compounds supplied in powder form, mainly including manganese dioxide (MnO_2), manganese(II) oxide (MnO), trimanganese tetroxide or manganese(II,III) oxide (Mn_3O_4), 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.

LP Information, Inc. (LPI) ' newest research report, the "Manganese Oxide Powder Industry Forecast" looks at past sales and reviews total world Manganese Oxide Powder sales in 2025, providing a comprehensive analysis by region and market sector of projected Manganese Oxide Powder sales for 2026 through 2032. With Manganese Oxide Powder sales broken down by region, market sector and sub-sector, this report

provides a detailed analysis in US\$ millions of the world Manganese Oxide Powder industry.

This Insight Report provides a comprehensive analysis of the global Manganese Oxide Powder landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Manganese Oxide Powder portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Manganese Oxide Powder market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Manganese Oxide Powder and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Manganese Oxide Powder.

This report presents a comprehensive overview, market shares, and growth opportunities of Manganese Oxide Powder market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Manganese Dioxide?MnO??

Manganese(II) Oxide?MnO?

Trimanganese Tetroxide?Mn?O??

Manganese(III) Oxide?Mn?O??

Mixed Manganese Oxide Powders

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

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

Segmentation by Application:

Battery Manufacturing

Electronic Materials

Ceramics, Glass and Building Materials

Agriculture and Animal Nutrition

Metallurgy and Welding

Environmental and Water Treatment

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Manganese Oxide Powder market?

What factors are driving Manganese Oxide Powder market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Manganese Oxide Powder market opportunities vary by end market size?

How does Manganese Oxide Powder break out by Type, by Application?

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