

# Global Manganese Oxide (MnO) Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GCCCDDB563A1EEN.html>

Date: February 2026

Pages: 177

Price: US\$ 4,480.00 (Single User License)

ID: GCCCDDB563A1EEN

## Abstracts

The global Manganese Oxide (MnO) market size is expected to reach \$ 298 million by 2032, rising at a market growth of 4.8% CAGR during the forecast period (2026-2032). Manganese oxide typically refers to an MnO-based manganese oxide raw material and functional powder, primarily used in animal nutrition and agricultural manganese supplementation, welding materials, manganese salt production for chemical applications, and certain high-purity fine chemical processes. It does not cover higher-valence manganese oxide materials used in primary batteries and related systems. Products are commonly supplied as green or brownish-green free-flowing fine powders. On the manufacturing side, high-grade manganese ore is often used as feedstock, produced via roasting under reducing conditions followed by refining and purification, and then milled and classified to achieve particle-size windows such as 100?200 mesh. Commercial supply centers on controllable, traceable specifications. Typical quality terms simultaneously define total manganese content, levels of associated impurities such as silica (SiO?) and iron oxide, and explicit limits for heavy metals including lead, arsenic, cadmium, and mercury. Some markets also require non-detectable dioxins, together with supporting test reports and compliance statements to meet country-specific regulations and customer audits. Certain products specify insolubility in water but solubility in acid, along with basic physical properties such as specific gravity, enabling downstream customers to validate formulations and dosing calculations. On the demand side, one segment is animal nutrition and agriculture, where MnO serves as a trace manganese source in feed and fertilizers; common specifications span roughly 50%?62% manganese content and emphasize safety and bioavailability, with packaging typically in 25 kg bags or 1,000?1,250 kg bulk bags and a requirement for extended shelf life. A second segment is welding, where MnO is used as a raw material for submerged-arc welding flux, with greater emphasis on manganese content and stable supply to ensure formulation consistency. Chemical intermediate applications use MnO

to produce manganese salts such as manganese carbonate and manganese sulfate, with customers prioritizing low iron and low silica as well as low calcium and magnesium to reduce filtration and evaporation costs. For high-purity uses, some suppliers offer higher-purity MnO to support chelating agents and other fine chemical processes, where purity stability and batch consistency are held to stricter requirements.

On the supply side, manganese(II) oxide (MnO) production is more likely to form regional clusters driven by resource availability and chemical-industry infrastructure. One cluster type is built on ore supply and basic chemical processing capability, where producers often operate broader manganese-chemical portfolios and sell into overseas markets. For example, some Indian manufacturers state on their official websites that they produce feed-grade and chemical-grade manganese oxide and serve customers in more than 50 countries, reflecting a distinctly export-oriented supply profile. Another cluster type comprises multinational materials companies that organize capacity through multi-country plant networks, strengthening delivery resilience via distributed manufacturing and warehousing/logistics nodes to meet downstream requirements for stable supply and documentation compliance across feed, agriculture, and industrial applications. North America and Mexico also host regionally supported supply bases anchored by established manganese value chains and corporate operating structures; some companies disclose domestic mining and processing footprints within their manganese business units, enabling integration from ore to downstream uses. Overall, MnO production geographies are primarily shaped by raw-material access, energy and environmental compliance costs, and the concentration of downstream customer industries.

On the demand side, regional differences are more strongly influenced by regulatory definitions and downstream industry structure, particularly in feed additives. The European Union provides a clear regulatory identity and quality requirements for manganese(II) oxide; for instance, the 3b502 entry specifies that powder-form MnO must meet minimum manganese content and MnO content, sets a maximum limit for MnO, and defines the chemical formula and CAS number as well as recommended analytical methods. This drives European procurement toward compliance-focused, documentation-heavy purchasing based on verifiable specifications. In response, suppliers serving animal nutrition often highlight dedicated production sites and service networks across multiple countries to support localized delivery and regulatory audits. Beyond feed, MnO consumption in chemical salt production and ceramics/glass tends to track the distribution of regional chemical and building-material capacity, typically placing greater emphasis on impurity profiles and particle-size windows. However, mandatory standards across countries are generally less uniform than the EU feed-additive framework. In summary, MnO demand in Europe is more regulation- and

standard-driven, while other regions are more influenced by industrial scale and cost structure.

From the perspective of flows from production to consumption, MnO exhibits a typical pattern in which cross-border trade coexists with localized service. Export-oriented producing countries commonly serve multiple national markets through standardized COA and SDS documentation, consistent particle-size control, and impurity management, forming distribution networks centered on ports and trade corridors. At the same time, due to logistics costs and lead-time requirements, local manufacturing and warehousing closer to end markets are often advantageous in feed and agriculture applications. Multinational suppliers use multi-country plants and local teams to reduce customs and delivery uncertainty, positioning compliance documentation, traceable testing, and continuity of supply as core competitive advantages. For the EU feed system, the regulatory entry provides a unified acceptance standard, which in turn pushes the supply chain toward greater standardization and certification. Consumption markets therefore tend to favor suppliers that can consistently meet regulatory thresholds and analytical-method expectations. Overall, production regions determine cost structure and supply flexibility, consumption regions determine compliance and service thresholds, and the combination of trade and localization shapes the regional competitive landscape.

This report studies the global Manganese Oxide (MnO) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Manganese Oxide (MnO) 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 (MnO) that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Manganese Oxide (MnO) total production and demand, 2021-2032, (Ton)

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

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

Global Manganese Oxide (MnO) consumption by region & country, CAGR, 2021-2032 & (Ton)

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

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

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

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

This report profiles key players in the global Manganese Oxide (MnO) 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 GoodEarth, Vibrantz Technologies, Manmohan Minerals & Chemicals Pvt Ltd, Nagpur Pyrolusite Pvt. Ltd, Manganese Products Corporation, Fermavi Eletroqu?mica, Multit?cnica Industrial, MnChemical Georgia, Autl?n, Sahjanand Group of Industries, 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 (MnO) market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Ton) 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 (MnO) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Manganese Oxide (MnO) Market, Segmentation by Type:

Chemical Grade MnO

Fertilizer Grade MnO

Feed Grade MnO

Battery Grade MnO

Global Manganese Oxide (MnO) Market, Segmentation by Reactivity and Dissolution Characteristics:

Fast Acid-Soluble

Moderate Acid-Soluble

Low Reactivity

Global Manganese Oxide (MnO) Market, Segmentation by Form:

Lumps / Coarse Granules

Standard Powder

Fine Powder

Ultrafine Powder

Global Manganese Oxide (MnO) Market, Segmentation by Application:

Agriculture Feed

Fertilizer

Chemical Field

Other (Battery Field etc.)

**Companies Profiled:**

GoodEarth

Vibrantz Technologies

Manmohan Minerals & Chemicals Pvt Ltd

Nagpur Pyrolusite Pvt. Ltd

Manganese Products Corporation

Fermavi Eletroqu?mica

Multit?cnica Industrial

MnChemical Georgia

Autl?n

Sahjanand Group of Industries

Metallics Minechem Private

Jyoti Dye-Chem Agency

Narayana Minerals

Universal Chemicals

American Elements

Mine Ore Enterprises

Nijal Industries

Siddharth Industries

Hunan Walsun New Materials Co., Ltd.

Shreenath Finechem

Tirupati Minerals (TMM Nagpur)

RMCPPL Group (RMPL)

Owais Metal and Mineral Processing Ltd.

Hunan QingChong New Materials Co., Ltd.

Hunan Fenghua Materials Development Co., Ltd.

Hunan Monda New Energy Materials Co., Ltd.

Qingdao Sincere Chemical Co., Ltd.

Yantai Chenyu New Materials Technology Co., Ltd.

### **Key Questions Answered:**

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

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