

Global Electrolytic Manganese Dioxide (EMD) Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Electrolytic Manganese Dioxide (EMD) market size was valued at US\$ 972 million in 2025 and is forecast to a readjusted size of US\$ 1481 million by 2032 with a CAGR of 6.3% during review period.

Electrolytic manganese dioxide (EMD) is used in Zinc Manganese batteries together with zinc chloride and ammonium chloride. EMD is commonly used in zinc manganese dioxide rechargeable alkaline (Zn RAM) cells also. For these applications, purity is extremely important. EMD is produced in a similar fashion as electrolytic tough pitch (ETP) copper: The manganese dioxide is dissolved in sulfuric acid (sometimes mixed with manganese sulfate) and subjected to a current between two electrodes. The MnO₂ dissolves, enters solution as the sulfate, and is deposited on the anode.

In 2024, global Electrolytic Manganese Dioxide (EMD) production reached approximately 460.97 K Tons, with an average global market price of around US\$ 1942 per tons.

In 2024, the top three companies by revenue were Xiangtan Electrochemical, South Manganese Investment Limited, and Tosoh. Together, they accounted for 48% of total market revenue in 2024.

The global Electrolytic Manganese Dioxide (EMD) market is at a pivotal juncture, characterized by a fundamental transition from a mature industry reliant on primary batteries to a dynamic, growth-oriented sector powered by the lithium-ion revolution. Our analysis concludes that while the market faces significant headwinds in its traditional segment, its long-term trajectory is decidedly positive, driven by powerful,

structural trends in energy storage and transportation. Strategic positioning and adaptability will be paramount for industry stakeholders to capitalize on the emerging opportunities.

The traditional foundation of the EMD market, primary alkaline batteries, provides a stable but slightly stagnating revenue base. Growth in this segment is largely tied to global population and GDP trends, with limited potential for significant expansion due to competition from rechargeable technologies. Consequently, the alkaline battery segment will continue to be a high-volume, cost-sensitive business, where operational efficiency and scale are key competitive advantages.

The primary engine for future growth is unequivocally the lithium-ion battery industry. EMD serves as the essential precursor for lithium manganese oxide (LMO) cathode chemistry, which is gaining considerable traction due to its superior safety, power output, and cost-effectiveness compared to other lithium-based chemistries. The proliferation of LMO batteries in electric two-wheelers, power tools, and increasingly in grid-scale energy storage and entry-level electric vehicles, is creating a new, high-value demand stream for EMD. This 'lithium-ion grade' EMD commands a significant price premium due to its stringent technical specifications, requiring ultra-high purity and tightly controlled physical properties, thereby creating a more profitable market segment for qualified producers.

The competitive landscape is consequently evolving. The market is bifurcating between large-scale producers serving the cost-sensitive alkaline market and specialized, often integrated, players focusing on the high-performance lithium-ion segment. Technological capability and the ability to consistently produce high-purity EMD are becoming the new barriers to entry and key differentiators. Furthermore, the industry's geographic center of gravity continues to shift towards the Asia-Pacific region, which boasts not only the world's largest battery manufacturing ecosystem but also competitive production costs.

Looking ahead, the EMD market is projected to experience a steady and robust Compound Annual Growth Rate (CAGR), potentially in the high single digits, over the next five to ten years. This growth will be fueled by the continued, albeit slow, expansion of the alkaline battery market and the accelerated adoption of LMO batteries. However, this optimistic outlook is tempered by challenges, including volatile raw material costs, intense competition from other cathode chemistries like LFP and NMC, and increasing environmental compliance costs.

In conclusion, the EMD industry is undergoing a necessary and transformative evolution. Success for market participants will hinge on their ability to navigate this dual-market reality: maintaining competitiveness in the traditional sector while strategically investing in the R&D, production capabilities, and partnerships required to thrive in the high-growth, value-added lithium-ion battery supply chain. The future belongs to those who can adapt to this new paradigm.

This report is a detailed and comprehensive analysis for global Electrolytic Manganese Dioxide (EMD) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Electrolytic Manganese Dioxide (EMD) market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Electrolytic Manganese Dioxide (EMD) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Electrolytic Manganese Dioxide (EMD) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Electrolytic Manganese Dioxide (EMD) market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Electrolytic Manganese Dioxide (EMD)

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Electrolytic Manganese Dioxide (EMD) market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Xiangtan Electrochemical, South Manganese Investment Limited, Tosoh, Guiliu New Material, Vibrantz, Guangxi Jingxi County Yizhou Manganese Industry, Autlan, Southwest Energy & Mineral, Guizhou Redstar, Borman Specialty Materials, etc.

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

Market Segmentation

Electrolytic Manganese Dioxide (EMD) market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Alkaline Battery Grade EMD

Zinc Manganese and Zinc-Carbon Battery Grade EMD

Lithium-ion Battery Grade EMD

Other Grade EMD

Market segment by Purity

P-U?Ultra?

P-H?High?

P-S?Standard?

Market segment by Physical Properties

High-Density EMD?HD-EMD?

High-Surface-Area EMD?HSA-EMD?

Market segment by Application

Primary Battery

Secondary Battery

Others (Water Treatment, Pigments, etc.)

Major players covered

Xiangtan Electrochemical

South Manganese Investment Limited

Tosoh

Guiliu New Material

Vibrantz

Guangxi Jingxi County Yizhou Manganese Industry

Autlan

Southwest Energy & Mineral

Guizhou Redstar

Borman Specialty Materials

Golden Mile GmbH

Moil Limited

Sahjanand Group of Industries

QingChong

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Electrolytic Manganese Dioxide (EMD) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Electrolytic Manganese Dioxide (EMD), with price, sales quantity, revenue, and global market share of Electrolytic Manganese Dioxide (EMD) from 2021 to 2026.

Chapter 3, the Electrolytic Manganese Dioxide (EMD) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Electrolytic Manganese Dioxide (EMD) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Electrolytic Manganese Dioxide (EMD) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Electrolytic Manganese Dioxide (EMD).

Chapter 14 and 15, to describe Electrolytic Manganese Dioxide (EMD) sales channel, distributors, customers, research findings and conclusion.

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