

Global Electrolytic Manganese Dioxide (EMD) Market Growth 2025-2031

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Abstracts

The global Electrolytic Manganese Dioxide (EMD) market size is predicted to grow from US\$ 1492 million in 2025 to US\$ 2286 million in 2031; it is expected to grow at a CAGR of 7.4% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

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 MnO_2 dissolves, enters solution as the sulfate, and is deposited on the anode.

Market Drivers

Battery Industry: The growing demand for rechargeable batteries, such as lithium - ion and nickel - metal hydride batteries, is a major driver for the EMD market. EMD is used as a cathode material in these batteries due to its high electrochemical activity and stability, which helps improve the battery's performance and lifespan.

Ceramics and Glass Industry: EMD is used in the ceramics and glass industry as a colorant and decolorizer. The increasing production of ceramics and glass products, driven by the construction and automotive industries, is expected to boost the demand

for EMD.

Water Treatment: EMD is used in water treatment processes to remove heavy metals and impurities. With the growing focus on environmental protection and the need for clean water, the demand for EMD in the water treatment industry is expected to increase.

Market Challenges

Raw Material Supply and Price Fluctuations: The availability and price of manganese ore, the main raw material for EMD production, can have a significant impact on the market. Fluctuations in the supply and price of manganese ore can affect the production cost and profitability of EMD manufacturers.

Environmental Regulations: The production of EMD involves certain environmental risks, such as the discharge of wastewater and waste gases. Stricter environmental regulations can increase the production cost and compliance burden for EMD manufacturers, potentially affecting the market supply.

Competition from Other Materials: EMD faces competition from other cathode materials and alternative technologies in some applications. For example, the development of new cathode materials for batteries may reduce the demand for EMD in the long term.

LP Information, Inc. (LPI) ' newest research report, the "Electrolytic Manganese Dioxide (EMD) Industry Forecast" looks at past sales and reviews total world Electrolytic Manganese Dioxide (EMD) sales in 2024, providing a comprehensive analysis by region and market sector of projected Electrolytic Manganese Dioxide (EMD) sales for 2025 through 2031. With Electrolytic Manganese Dioxide (EMD) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Electrolytic Manganese Dioxide (EMD) industry.

This Insight Report provides a comprehensive analysis of the global Electrolytic Manganese Dioxide (EMD) 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 Electrolytic Manganese Dioxide (EMD) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Electrolytic Manganese Dioxide (EMD) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Electrolytic Manganese Dioxide (EMD) 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 Electrolytic Manganese Dioxide (EMD).

This report presents a comprehensive overview, market shares, and growth opportunities of Electrolytic Manganese Dioxide (EMD) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Alkaline Battery Grade EMD

Zinc Manganese and Zinc-Carbon Battery Grade EMD

Lithium-Ion Battery Grade EMD

Primary Lithium Manganese Battery Grade

Other Grade EMD

Segmentation by Application:

Primary Battery

Secondary Battery

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

Vibrantz

Borman Specialty Materials

Autlan

Golden Mile GmbH

Moil Limited

Xiangtan Electrochemical

Guiliu New Material

South Manganese Investment Limited

Guizhou Redstar

Guangxi Jingxi County Yizhou Manganese Industry

Guizhou Manganese Mineral Group

Sahjanand Group of Industries

Key Questions Addressed in this Report

What is the 10-year outlook for the global Electrolytic Manganese Dioxide (EMD) market?

What factors are driving Electrolytic Manganese Dioxide (EMD) market growth, globally and by region?

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

How do Electrolytic Manganese Dioxide (EMD) market opportunities vary by end market size?

How does Electrolytic Manganese Dioxide (EMD) break out by Type, by Application?

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