

Global Electrolytic Manganese Dioxide (EMD) for Battery Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Electrolytic Manganese Dioxide (EMD) for Battery market size was valued at US\$ 1168 million in 2024 and is forecast to a readjusted size of USD 1779 million by 2031 with a CAGR of 6.2% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Electrolytic Manganese Dioxide (EMD) is a high-purity, synthetic form of manganese dioxide (MnO_2) produced through electrochemical deposition from manganese sulfate solutions. It serves as a critical cathode material in alkaline and zinc-carbon batteries, prized for its high electrochemical activity, stability, and cost efficiency.

Market Drivers

Expansion of the Electric Vehicle Industry: The growing popularity of electric vehicles (EVs) is a major driver. As EV manufacturers strive to improve battery performance and reduce costs, EMD offers a cost-effective and efficient cathode material option. The increasing production volume of EVs, with projections with millions of units sold annually by 2030, is expected to significantly boost the demand for EMD.

Rise in Portable Electronic Device Usage: The continuous innovation and widespread adoption of portable electronic devices such as smartphones, tablets, and laptops require high-performance batteries. EMD-based batteries provide the necessary

energy density and cycle life, leading to increased demand for EMD in this sector.

Growth of Energy Storage Systems: With the increasing integration of renewable energy sources like solar and wind, the need for efficient energy storage systems has become crucial. EMD - containing batteries are being widely used in these systems to store excess energy, further driving the market growth.

Market Challenges

Intense Competition from Alternative Cathode Materials: EMD faces tough competition from other cathode materials such as lithium - cobalt - oxide (LCO), lithium - nickel - manganese - cobalt - oxide (NMC), and lithium - iron - phosphate (LFP). These materials offer different advantages in terms of energy density, safety, and cost, posing a challenge to the market share of EMD.

Volatility in Raw Material Prices: The price of manganese, the key raw material for EMD production, is subject to fluctuations due to changes in global supply and demand dynamics, as well as geopolitical factors. This volatility can impact the production costs and profit margins of EMD manufacturers, making it difficult to maintain stable pricing for battery - grade EMD.

Stringent Environmental and Safety Regulations: The production and disposal of EMD - based batteries are subject to strict environmental and safety regulations. Manufacturers need to invest in proper waste management and recycling facilities to comply with these regulations, adding to the overall production costs.

This report is a detailed and comprehensive analysis for global Electrolytic Manganese Dioxide (EMD) for Battery 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) for Battery market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices

(US\$/Ton), 2020-2031

Global Electrolytic Manganese Dioxide (EMD) for Battery market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2020-2031

Global Electrolytic Manganese Dioxide (EMD) for Battery market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2020-2031

Global Electrolytic Manganese Dioxide (EMD) for Battery market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 2020-2025

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) for Battery
- 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) for Battery 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 Tosoh, Vibrantz, Borman Specialty Materials, Autlan, Golden Mile GmbH, Moil Limited, Xiangtan Electrochemical, Guiliu New Material, South Manganese Investment Limited, Guizhou Redstar, etc.

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

Market Segmentation

Electrolytic Manganese Dioxide (EMD) for Battery market is split by Type and by Application. For the period 2020-2031, 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

Alkali Manganese Type

Carbon Zinc Type

Lithium Manganate Type

Others

Market segment by Application

Primary Battery

Secondary Battery

Major players covered

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

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) for Battery product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Electrolytic Manganese Dioxide (EMD) for Battery, with price, sales quantity, revenue, and global market share of Electrolytic Manganese Dioxide (EMD) for Battery from 2020 to 2025.

Chapter 3, the Electrolytic Manganese Dioxide (EMD) for Battery 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) for Battery breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Electrolytic Manganese Dioxide (EMD) for Battery market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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) for Battery.

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

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