

Global Mixed Metal Oxide (MMO) Electrode Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Mixed Metal Oxide (MMO) Electrode market size is expected to reach \$ 1665 million by 2032, rising at a market growth of 5.1% CAGR during the forecast period (2026-2032).

In 2025, global MMO electrode production reached approximately 238.5 k Sqm, with an average global market price of around US\$4814 per Sqm. Mixed metal oxide (MMO) electrodes, also called Dimensionally Stable Anodes (DSA), are devices with high conductivity and corrosion resistance for use as anodes in electrolysis. They are made by coating a substrate, such as pure titanium plate or expanded mesh, with several kinds of metal oxides. One oxide is usually RuO₂, IrO₂, or PtO₂, which conducts electricity and catalyzes the desired reaction such as the production of chlorine gas. The other metal oxide is typically titanium dioxide which does not conduct or catalyze the reaction, but is cheaper and prevents corrosion of the interior.

The global market for Mixed Metal Oxide (MMO) electrodes is evolving from traditional applications in chlor-alkali, electroplating, and hydrometallurgy into emerging fields like water electrolysis for green hydrogen, fuel cells, and CO₂ conversion. Major electrochemical companies, such as De Nora, have installed over 50,000 DSA anodes worldwide, demonstrating established market penetration. Current development trends focus on creating catalytic coatings for alkaline and PEM water electrolysis to produce green hydrogen, alongside advanced oxidation electrodes for water treatment. Growth opportunities are driven by the global energy transition and circular economy policies, increasing demand for MMO electrodes in green hydrogen production, precious metal recovery, and wastewater purification. However, significant barriers remain: the reliance on expensive and supply-chain-critical precious metals like iridium and ruthenium; technical challenges regarding coating durability under harsh operating conditions; and competition from alternative materials such as non-precious metal catalysts and carbon-based electrodes.

This report studies the global Mixed Metal Oxide (MMO) Electrode production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Mixed Metal Oxide (MMO) Electrode total production and demand, 2021-2032, (K Sqm)

Global Mixed Metal Oxide (MMO) Electrode total production value, 2021-2032, (USD Million)

Global Mixed Metal Oxide (MMO) Electrode production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)

Global Mixed Metal Oxide (MMO) Electrode consumption by region & country, CAGR, 2021-2032 & (K Sqm)

U.S. VS China: Mixed Metal Oxide (MMO) Electrode domestic production, consumption, key domestic manufacturers and share

Global Mixed Metal Oxide (MMO) Electrode production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sqm)

Global Mixed Metal Oxide (MMO) Electrode production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

Global Mixed Metal Oxide (MMO) Electrode production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global Mixed Metal Oxide (MMO) Electrode 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 Magneto, De Nora, Matcor, Umicore, Uyemura, Jennings Anodes, Farwest Corrosion, Borna Electronics, BAC Corrosion Control, NMT Electrodes, 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 Mixed Metal Oxide (MMO) Electrode market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sqm) and average price (US\$/Sq m) 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 Mixed Metal Oxide (MMO) Electrode Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Mixed Metal Oxide (MMO) Electrode Market, Segmentation by Type:

Oxygen Evolution Anodes

Chlorine Evolution Anodes

Global Mixed Metal Oxide (MMO) Electrode Market, Segmentation by Coating:

Ruthenium-based Coated

Iridium-based Coated

Global Mixed Metal Oxide (MMO) Electrode Market, Segmentation by Shape:

Tube Electrode

Rod Electrode

Ribbon Electrode

Others

Global Mixed Metal Oxide (MMO) Electrode Market, Segmentation by Application:

Electrolytic Copper

Water Treatment

Metal Plating

PCB Plating

Hydrometallurgy

Others

Companies Profiled:

Magneto

De Nora

Matcor

Umicore

Uyemura

Jennings Anodes

Farwest Corrosion

Borna Electronics

BAC Corrosion Control

NMT Electrodes

Matsuda Sangyo

SPF Co., Ltd.

Xian Taijin Industrial Electrochemical Technology

Jiangyin Miracle

Jiangyin Annuo Electrode

Baoji Changli Special Metal

UTron Technology

Zhejiang Yuxi Corrosion Control Corporation

Key Questions Answered:

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

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