

# Global Mixed Metal Oxides Titanium Anode Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Mixed Metal Oxides Titanium Anode market size is expected to reach \$ 822 million by 2032, rising at a market growth of 4.0% CAGR during the forecast period (2026-2032).

Mixed Metal Oxides (MMO) Titanium Anodes are a type of electrochemical anode used in various industrial applications. These anodes are coated with a mixture of metal oxides, typically including ruthenium oxide (RuO<sub>2</sub>), iridium oxide (IrO<sub>2</sub>), and sometimes other oxides like tantalum oxide (Ta<sub>2</sub>O<sub>5</sub>). The titanium substrate provides the base, while the MMO coating offers superior catalytic activity and corrosion resistance. The product has an annual output of approximately 2 million square meters, and the price varies considerably depending on the materials used, with an average price of approximately US\$300 per square meter.

Upstream for Mixed Metal Oxides Titanium Anode starts with titanium sponge/ingot supply and mill processing into plates, meshes, tubes, or porous substrates, plus sourcing of catalytic and barrier-layer materials such as platinum-group metals and precursor salts (Ir/Ru/Pt, Ta, Sn, Sb, etc.), ceramic/oxide powders, binders, and specialty chemicals for surface preparation; manufacturers then fabricate the titanium substrate, activate the surface (degreasing, pickling, grit blasting/etching), and apply the functional layers by thermal decomposition, electroplating, sputtering, sol-gel, CVD/ALD, or sintering, followed by curing, inspection, and electrochemical qualification, with cost and lead time heavily influenced by precious-metal prices and coating yield. Downstream, these electrodes are sold directly or via integrators to OEMs and end users in chlor-alkali/electrochlorination, wastewater treatment, electroplating and metal finishing, electrowinning, cathodic protection, and some electrolyzers, where value is realized through energy efficiency and service life; recurring aftermarket demand comes from recoating/refurbishment, replacement of worn anodes, and consumables/services tied to system operation (power supplies, rectifiers, control systems), while adoption is

shaped by total cost of ownership, compliance requirements, and the customer's ability to standardize electrode geometry and coating specification across multiple lines.

Mixed Metal Oxides Titanium Anode occupy a specialty position in electrochemical equipment supply chains because they compete primarily on total cost of ownership rather than on upfront price, with buyers valuing lifetime, energy efficiency, and process stability in harsh electrolytes. Demand is anchored by replacement cycles in established industries such as chlor-alkali and electrochlorination, electroplating and metal finishing, cathodic protection, and increasingly by growth niches like advanced wastewater electro-oxidation and certain electrolyzer designs, where coating performance and durability directly affect operating cost and uptime. The competitive landscape is relatively concentrated at the high end, with established players differentiated by proprietary coating formulations, quality control, and application engineering support, while a broad long-tail of regional suppliers competes on standard MMO geometries and faster lead times. Pricing and margins are sensitive to precious-metal inputs (Ir, Ru, Pt) and fabrication yield, so suppliers actively manage coating loading, recycling/refurbishment programs, and long-term contracts; on the demand side, customers are pushing for longer-life coatings, reduced noble-metal intensity, and more transparent performance guarantees, while tightening environmental and safety expectations are gradually favoring higher-efficiency, lower-maintenance electrode solutions over sacrificial or higher-consumable alternatives.

This report studies the global Mixed Metal Oxides Titanium Anode production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Mixed Metal Oxides Titanium Anode 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 Oxides Titanium Anode that contribute to its increasing demand across many markets.

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

Global Mixed Metal Oxides Titanium Anode total production and demand, 2021-2032, (Sq m)

Global Mixed Metal Oxides Titanium Anode total production value, 2021-2032, (USD Million)

Global Mixed Metal Oxides Titanium Anode production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Sq m), (based on production site)

Global Mixed Metal Oxides Titanium Anode consumption by region & country, CAGR, 2021-2032 & (Sq m)

U.S. VS China: Mixed Metal Oxides Titanium Anode domestic production, consumption, key domestic manufacturers and share

Global Mixed Metal Oxides Titanium Anode production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Sq m)

Global Mixed Metal Oxides Titanium Anode production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Sq m)

Global Mixed Metal Oxides Titanium Anode production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Sq m)

This report profiles key players in the global Mixed Metal Oxides Titanium Anode 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 De Nora, Umicore, Permaskand, Metso, SPF, Xi'an Taijin Xinneng Technology, Baojichangli Special Metal, Jianguyin Anuo Electrode, Jianguyin Miracle Electrolysis Equipment, Magneto Special Anodes, 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 Oxides Titanium Anode market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Sq m) 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 Oxides Titanium Anode Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Mixed Metal Oxides Titanium Anode Market, Segmentation by Type:

Ruthenium-based Titanium Electrodes

Iridium-based Titanium Electrodes

Platinum-based Titanium Electrodes

Others

### Global Mixed Metal Oxides Titanium Anode Market, Segmentation by Shape:

Mesh

Plate

Rod

Tube

Others

### Global Mixed Metal Oxides Titanium Anode Market, Segmentation by Target Reaction:

Chlorine Evolution Anodes (CEA)

Oxygen Evolution Anodes (OEA)

Oxidation Anodes for Electro-oxidation/AOP

Cathodic Protection Impressed-current Anodes (ICCP MMO)

### Global Mixed Metal Oxides Titanium Anode Market, Segmentation by Application:

New Energy Batteries

Electrolytic Copper Foil

PCB Manufacturing

Hydrogen Production

Wastewater Treatment

Others

### **Companies Profiled:**

De Nora

Umicore

Permaskand

Metso

SPF

Xi'an Taijin Xinneng Technology

Baojichangli Special Metal

Jiangyin Anuo Electrode

Jiangyin Miracle Electrolysis Equipment

Magneto Special Anodes

Baoji Qixin Titanium

Zhongrui Guoneng Technology

Jiangsu Yi'anteng Special Electrode

UTron Technology

Baoji Ruicheng Titanium

**Key Questions Answered:**

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

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