

Global Mixed Metal Oxides Titanium Anode 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 Mixed Metal Oxides Titanium Anode market size was valued at US\$ 623 million in 2025 and is forecast to a readjusted size of US\$ 822 million by 2032 with a CAGR of 4.0% during review period.

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 (RuO₂), iridium oxide (IrO₂), and sometimes other oxides like tantalum oxide (Ta₂O₅). 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 is a detailed and comprehensive analysis for global Mixed Metal Oxides Titanium Anode 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 Mixed Metal Oxides Titanium Anode market size and forecasts, in consumption value (\$ Million), sales quantity (Sq m), and average selling prices (US\$/Sq m), 2021-2032

Global Mixed Metal Oxides Titanium Anode market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Sq m), and average selling prices (US\$/Sq m), 2021-2032

Global Mixed Metal Oxides Titanium Anode market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Sq m), and average selling prices (US\$/Sq m), 2021-2032

Global Mixed Metal Oxides Titanium Anode market shares of main players, shipments in revenue (\$ Million), sales quantity (Sq m), and ASP (US\$/Sq m), 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 Mixed Metal Oxides Titanium Anode

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 Mixed Metal Oxides Titanium Anode 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 De Nora, Umicore, Permasek, Metso, SPF, Xi'an Taijin Xinneng Technology, Baojichangli Special Metal, Jiangyin Anuo Electrode, Jiangyin Miracle Electrolysis Equipment, Magneto Special Anodes, etc.

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

Market Segmentation

Mixed Metal Oxides Titanium Anode 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

Ruthenium-based Titanium Electrodes

Iridium-based Titanium Electrodes

Platinum-based Titanium Electrodes

Others

Market segment by Shape

Mesh

Plate

Rod

Tube

Others

Market segment by Target Reaction

Chlorine Evolution Anodes (CEA)

Oxygen Evolution Anodes (OEA)

Oxidation Anodes for Electro-oxidation/AOP

Cathodic Protection Impressed-current Anodes (ICCP MMO)

Market segment by Application

New Energy Batteries

Electrolytic Copper Foil

PCB Manufacturing

Hydrogen Production

Wastewater Treatment

Others

Major players covered

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

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 Mixed Metal Oxides Titanium Anode product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Mixed Metal Oxides Titanium Anode, with price, sales quantity, revenue, and global market share of Mixed Metal Oxides Titanium Anode from 2021 to 2026.

Chapter 3, the Mixed Metal Oxides Titanium Anode competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Mixed Metal Oxides Titanium Anode 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 Mixed Metal Oxides Titanium Anode 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 Mixed Metal Oxides Titanium Anode.

Chapter 14 and 15, to describe Mixed Metal Oxides Titanium Anode sales channel, distributors, customers, research findings and conclusion.

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