

Global Titanium-Based MMO Anodes Market Growth 2026-2032

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Abstracts

The global Titanium-Based MMO Anodes market size is predicted to grow from US\$ 592 million in 2025 to US\$ 793 million in 2032; it is expected to grow at a CAGR of 4.3% from 2026 to 2032.

A Titanium-Based MMO Anodes are electrochemical electrode that uses titanium as the mechanical backbone and corrosion-resistant current collector, combined with one or more functional layers or materials that provide the desired electrochemical activity. In most industrial designs, titanium is not the main catalytic surface; instead it is composited with coatings such as mixed metal oxides (MMO, e.g., IrO₂/RuO₂/Ta₂O₅), platinum-group metals, doped metal oxides, or other catalytic films deposited onto a titanium plate, mesh, tube, or porous substrate, sometimes with intermediate barrier layers to improve adhesion and prevent passivation. This composite structure yields a long-life, dimensionally stable electrode with low overpotential and stable performance under aggressive electrolytes and high current density, and it is widely used in chlor-alkali and electrochlorination, wastewater electro-oxidation, electroplating/metal finishing, cathodic protection, and certain electrolysis and energy-storage systems. 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 Titanium-Based MMO Anodes 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.

United States market for Titanium-Based MMO Anodes is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Titanium-Based MMO Anodes is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Titanium-Based MMO Anodes is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Titanium-Based MMO Anodes players cover De Nora, Umicore, Permasek, Metso, SPF, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) 's newest research report, the "Titanium-Based MMO Anodes Industry Forecast" looks at past sales and reviews total world Titanium-Based MMO Anodes sales in 2025, providing a comprehensive analysis by region and market sector of projected Titanium-Based MMO Anodes sales for 2026 through 2032. With Titanium-Based MMO Anodes sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Titanium-Based MMO Anodes industry.

This Insight Report provides a comprehensive analysis of the global Titanium-Based MMO Anodes 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 Titanium-Based MMO Anodes portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique

position in an accelerating global Titanium-Based MMO Anodes market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Titanium-Based MMO Anodes 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 Titanium-Based MMO Anodes.

This report presents a comprehensive overview, market shares, and growth opportunities of Titanium-Based MMO Anodes market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Ruthenium-based Titanium Electrodes

Iridium-based Titanium Electrodes

Platinum-based Titanium Electrodes

Others

Segmentation by Shape:

Mesh

Plate

Rod

Tube

Others

Segmentation by Application:

New Energy Batteries

Electrolytic Copper Foil

PCB Manufacturing

Hydrogen Production

Wastewater Treatment

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.

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 Addressed in this Report

What is the 10-year outlook for the global Titanium-Based MMO Anodes market?

What factors are driving Titanium-Based MMO Anodes market growth, globally and by region?

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

How do Titanium-Based MMO Anodes market opportunities vary by end market size?

How does Titanium-Based MMO Anodes break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Titanium-Based MMO Anodes Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Titanium-Based MMO Anodes by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Titanium-Based MMO Anodes by Country/Region, 2021, 2025 & 2032

2.2 Titanium-Based MMO Anodes Segment by Type

- 2.2.1 Ruthenium-based Titanium Electrodes
- 2.2.2 Iridium-based Titanium Electrodes
- 2.2.3 Platinum-based Titanium Electrodes
- 2.2.4 Others
- 2.2.5 Titanium-Based MMO Anodes Sales by Type
 - 2.2.5.1 Global Titanium-Based MMO Anodes Sales Market Share by Type (2021-2026)
 - 2.2.5.2 Global Titanium-Based MMO Anodes Revenue and Market Share by Type (2021-2026)
 - 2.2.5.3 Global Titanium-Based MMO Anodes Sale Price by Type (2021-2026)

2.3 Titanium-Based MMO Anodes Segment by Shape

- 2.3.1 Mesh
- 2.3.2 Plate
- 2.3.3 Rod
- 2.3.4 Tube
- 2.3.5 Others
- 2.3.6 Titanium-Based MMO Anodes Sales by Shape

2.3.6.1 Global Titanium-Based MMO Anodes Sales Market Share by Shape (2021-2026)

2.3.6.2 Global Titanium-Based MMO Anodes Revenue and Market Share by Shape (2021-2026)

2.3.6.3 Global Titanium-Based MMO Anodes Sale Price by Shape (2021-2026)

2.4 Titanium-Based MMO Anodes Segment by Application

2.4.1 New Energy Batteries

2.4.2 Electrolytic Copper Foil

2.4.3 PCB Manufacturing

2.4.4 Hydrogen Production

2.4.5 Wastewater Treatment

2.4.6 Others

2.4.7 Titanium-Based MMO Anodes Sales by Application

2.4.7.1 Global Titanium-Based MMO Anodes Sale Market Share by Application (2021-2026)

2.4.7.2 Global Titanium-Based MMO Anodes Revenue and Market Share by Application (2021-2026)

2.4.7.3 Global Titanium-Based MMO Anodes Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Titanium-Based MMO Anodes Breakdown Data by Company

3.1.1 Global Titanium-Based MMO Anodes Annual Sales by Company (2021-2026)

3.1.2 Global Titanium-Based MMO Anodes Sales Market Share by Company (2021-2026)

3.2 Global Titanium-Based MMO Anodes Annual Revenue by Company (2021-2026)

3.2.1 Global Titanium-Based MMO Anodes Revenue by Company (2021-2026)

3.2.2 Global Titanium-Based MMO Anodes Revenue Market Share by Company (2021-2026)

3.3 Global Titanium-Based MMO Anodes Sale Price by Company

3.4 Key Manufacturers Titanium-Based MMO Anodes Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Titanium-Based MMO Anodes Product Location Distribution

3.4.2 Players Titanium-Based MMO Anodes Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR TITANIUM-BASED MMO ANODES BY GEOGRAPHIC REGION

4.1 World Historic Titanium-Based MMO Anodes Market Size by Geographic Region (2021-2026)

4.1.1 Global Titanium-Based MMO Anodes Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Titanium-Based MMO Anodes Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Titanium-Based MMO Anodes Market Size by Country/Region (2021-2026)

4.2.1 Global Titanium-Based MMO Anodes Annual Sales by Country/Region (2021-2026)

4.2.2 Global Titanium-Based MMO Anodes Annual Revenue by Country/Region (2021-2026)

4.3 Americas Titanium-Based MMO Anodes Sales Growth

4.4 APAC Titanium-Based MMO Anodes Sales Growth

4.5 Europe Titanium-Based MMO Anodes Sales Growth

4.6 Middle East & Africa Titanium-Based MMO Anodes Sales Growth

5 AMERICAS

5.1 Americas Titanium-Based MMO Anodes Sales by Country

5.1.1 Americas Titanium-Based MMO Anodes Sales by Country (2021-2026)

5.1.2 Americas Titanium-Based MMO Anodes Revenue by Country (2021-2026)

5.2 Americas Titanium-Based MMO Anodes Sales by Type (2021-2026)

5.3 Americas Titanium-Based MMO Anodes Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Titanium-Based MMO Anodes Sales by Region

6.1.1 APAC Titanium-Based MMO Anodes Sales by Region (2021-2026)

6.1.2 APAC Titanium-Based MMO Anodes Revenue by Region (2021-2026)

6.2 APAC Titanium-Based MMO Anodes Sales by Type (2021-2026)

6.3 APAC Titanium-Based MMO Anodes Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Titanium-Based MMO Anodes by Country

7.1.1 Europe Titanium-Based MMO Anodes Sales by Country (2021-2026)

7.1.2 Europe Titanium-Based MMO Anodes Revenue by Country (2021-2026)

7.2 Europe Titanium-Based MMO Anodes Sales by Type (2021-2026)

7.3 Europe Titanium-Based MMO Anodes Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Titanium-Based MMO Anodes by Country

8.1.1 Middle East & Africa Titanium-Based MMO Anodes Sales by Country (2021-2026)

8.1.2 Middle East & Africa Titanium-Based MMO Anodes Revenue by Country (2021-2026)

8.2 Middle East & Africa Titanium-Based MMO Anodes Sales by Type (2021-2026)

8.3 Middle East & Africa Titanium-Based MMO Anodes Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Titanium-Based MMO Anodes
- 10.3 Manufacturing Process Analysis of Titanium-Based MMO Anodes
- 10.4 Industry Chain Structure of Titanium-Based MMO Anodes

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Titanium-Based MMO Anodes Distributors
- 11.3 Titanium-Based MMO Anodes Customer

12 WORLD FORECAST REVIEW FOR TITANIUM-BASED MMO ANODES BY GEOGRAPHIC REGION

- 12.1 Global Titanium-Based MMO Anodes Market Size Forecast by Region
 - 12.1.1 Global Titanium-Based MMO Anodes Forecast by Region (2027-2032)
 - 12.1.2 Global Titanium-Based MMO Anodes Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Titanium-Based MMO Anodes Forecast by Type (2027-2032)
- 12.7 Global Titanium-Based MMO Anodes Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 De Nora
 - 13.1.1 De Nora Company Information
 - 13.1.2 De Nora Titanium-Based MMO Anodes Product Portfolios and Specifications

13.1.3 De Nora Titanium-Based MMO Anodes Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 De Nora Main Business Overview

13.1.5 De Nora Latest Developments

13.2 Umicore

13.2.1 Umicore Company Information

13.2.2 Umicore Titanium-Based MMO Anodes Product Portfolios and Specifications

13.2.3 Umicore Titanium-Based MMO Anodes Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Umicore Main Business Overview

13.2.5 Umicore Latest Developments

13.3 Permaskand

13.3.1 Permaskand Company Information

13.3.2 Permaskand Titanium-Based MMO Anodes Product Portfolios and Specifications

13.3.3 Permaskand Titanium-Based MMO Anodes Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Permaskand Main Business Overview

13.3.5 Permaskand Latest Developments

13.4 Metso

13.4.1 Metso Company Information

13.4.2 Metso Titanium-Based MMO Anodes Product Portfolios and Specifications

13.4.3 Metso Titanium-Based MMO Anodes Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Metso Main Business Overview

13.4.5 Metso Latest Developments

13.5 SPF

13.5.1 SPF Company Information

13.5.2 SPF Titanium-Based MMO Anodes Product Portfolios and Specifications

13.5.3 SPF Titanium-Based MMO Anodes Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 SPF Main Business Overview

13.5.5 SPF Latest Developments

13.6 Xi'an Taijin Xinneng Technology

13.6.1 Xi'an Taijin Xinneng Technology Company Information

13.6.2 Xi'an Taijin Xinneng Technology Titanium-Based MMO Anodes Product Portfolios and Specifications

13.6.3 Xi'an Taijin Xinneng Technology Titanium-Based MMO Anodes Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.6.4 Xi'an Taijin Xinneng Technology Main Business Overview
- 13.6.5 Xi'an Taijin Xinneng Technology Latest Developments
- 13.7 Baojichangli Special Metal
 - 13.7.1 Baojichangli Special Metal Company Information
 - 13.7.2 Baojichangli Special Metal Titanium-Based MMO Anodes Product Portfolios and Specifications
 - 13.7.3 Baojichangli Special Metal Titanium-Based MMO Anodes Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Baojichangli Special Metal Main Business Overview
 - 13.7.5 Baojichangli Special Metal Latest Developments
- 13.8 Jiangyin Anuo Electrode
 - 13.8.1 Jiangyin Anuo Electrode Company Information
 - 13.8.2 Jiangyin Anuo Electrode Titanium-Based MMO Anodes Product Portfolios and Specifications
 - 13.8.3 Jiangyin Anuo Electrode Titanium-Based MMO Anodes Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 Jiangyin Anuo Electrode Main Business Overview
 - 13.8.5 Jiangyin Anuo Electrode Latest Developments
- 13.9 Jiangyin Miracle Electrolysis Equipment
 - 13.9.1 Jiangyin Miracle Electrolysis Equipment Company Information
 - 13.9.2 Jiangyin Miracle Electrolysis Equipment Titanium-Based MMO Anodes Product Portfolios and Specifications
 - 13.9.3 Jiangyin Miracle Electrolysis Equipment Titanium-Based MMO Anodes Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 Jiangyin Miracle Electrolysis Equipment Main Business Overview
 - 13.9.5 Jiangyin Miracle Electrolysis Equipment Latest Developments
- 13.10 Magneto Special Anodes
 - 13.10.1 Magneto Special Anodes Company Information
 - 13.10.2 Magneto Special Anodes Titanium-Based MMO Anodes Product Portfolios and Specifications
 - 13.10.3 Magneto Special Anodes Titanium-Based MMO Anodes Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 Magneto Special Anodes Main Business Overview
 - 13.10.5 Magneto Special Anodes Latest Developments
- 13.11 Baoji Qixin Titanium
 - 13.11.1 Baoji Qixin Titanium Company Information
 - 13.11.2 Baoji Qixin Titanium Titanium-Based MMO Anodes Product Portfolios and Specifications
 - 13.11.3 Baoji Qixin Titanium Titanium-Based MMO Anodes Sales, Revenue, Price and

Gross Margin (2021-2026)

13.11.4 Baoji Qixin Titanium Main Business Overview

13.11.5 Baoji Qixin Titanium Latest Developments

13.12 Zhongrui Guoneng Technology

13.12.1 Zhongrui Guoneng Technology Company Information

13.12.2 Zhongrui Guoneng Technology Titanium-Based MMO Anodes Product

Portfolios and Specifications

13.12.3 Zhongrui Guoneng Technology Titanium-Based MMO Anodes Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Zhongrui Guoneng Technology Main Business Overview

13.12.5 Zhongrui Guoneng Technology Latest Developments

13.13 Jiangsu Yi'anteng Special Electrode

13.13.1 Jiangsu Yi'anteng Special Electrode Company Information

13.13.2 Jiangsu Yi'anteng Special Electrode Titanium-Based MMO Anodes Product

Portfolios and Specifications

13.13.3 Jiangsu Yi'anteng Special Electrode Titanium-Based MMO Anodes Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Jiangsu Yi'anteng Special Electrode Main Business Overview

13.13.5 Jiangsu Yi'anteng Special Electrode Latest Developments

13.14 UTron Technology

13.14.1 UTron Technology Company Information

13.14.2 UTron Technology Titanium-Based MMO Anodes Product Portfolios and Specifications

13.14.3 UTron Technology Titanium-Based MMO Anodes Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 UTron Technology Main Business Overview

13.14.5 UTron Technology Latest Developments

13.15 Baoji Ruicheng Titanium

13.15.1 Baoji Ruicheng Titanium Company Information

13.15.2 Baoji Ruicheng Titanium Titanium-Based MMO Anodes Product Portfolios and Specifications

13.15.3 Baoji Ruicheng Titanium Titanium-Based MMO Anodes Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 Baoji Ruicheng Titanium Main Business Overview

13.15.5 Baoji Ruicheng Titanium Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Titanium-Based MMO Anodes Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Titanium-Based MMO Anodes Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Ruthenium-based Titanium Electrodes

Table 4. Major Players of Iridium-based Titanium Electrodes

Table 5. Major Players of Platinum-based Titanium Electrodes

Table 6. Major Players of Others

Table 7. Global Titanium-Based MMO Anodes Sales by Type (2021-2026) & (Sq m)

Table 8. Global Titanium-Based MMO Anodes Sales Market Share by Type (2021-2026)

Table 9. Global Titanium-Based MMO Anodes Revenue by Type (2021-2026) & (\$ million)

Table 10. Global Titanium-Based MMO Anodes Revenue Market Share by Type (2021-2026)

Table 11. Global Titanium-Based MMO Anodes Sale Price by Type (2021-2026) & (US\$/Sq m)

Table 12. Major Players of Mesh

Table 13. Major Players of Plate

Table 14. Major Players of Rod

Table 15. Major Players of Tube

Table 16. Major Players of Others

Table 17. Global Titanium-Based MMO Anodes Sales by Shape (2021-2026) & (Sq m)

Table 18. Global Titanium-Based MMO Anodes Sales Market Share by Shape (2021-2026)

Table 19. Global Titanium-Based MMO Anodes Revenue by Shape (2021-2026) & (\$ million)

Table 20. Global Titanium-Based MMO Anodes Revenue Market Share by Shape (2021-2026)

Table 21. Global Titanium-Based MMO Anodes Sale Price by Shape (2021-2026) & (US\$/Sq m)

Table 22. Global Titanium-Based MMO Anodes Sale by Application (2021-2026) & (Sq m)

Table 23. Global Titanium-Based MMO Anodes Sale Market Share by Application (2021-2026)

- Table 24. Global Titanium-Based MMO Anodes Revenue by Application (2021-2026) & (\$ million)
- Table 25. Global Titanium-Based MMO Anodes Revenue Market Share by Application (2021-2026)
- Table 26. Global Titanium-Based MMO Anodes Sale Price by Application (2021-2026) & (US\$/Sq m)
- Table 27. Global Titanium-Based MMO Anodes Sales by Company (2021-2026) & (Sq m)
- Table 28. Global Titanium-Based MMO Anodes Sales Market Share by Company (2021-2026)
- Table 29. Global Titanium-Based MMO Anodes Revenue by Company (2021-2026) & (\$ millions)
- Table 30. Global Titanium-Based MMO Anodes Revenue Market Share by Company (2021-2026)
- Table 31. Global Titanium-Based MMO Anodes Sale Price by Company (2021-2026) & (US\$/Sq m)
- Table 32. Key Manufacturers Titanium-Based MMO Anodes Producing Area Distribution and Sales Area
- Table 33. Players Titanium-Based MMO Anodes Products Offered
- Table 34. Titanium-Based MMO Anodes Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- Table 35. New Products and Potential Entrants
- Table 36. Market M&A Activity & Strategy
- Table 37. Global Titanium-Based MMO Anodes Sales by Geographic Region (2021-2026) & (Sq m)
- Table 38. Global Titanium-Based MMO Anodes Sales Market Share Geographic Region (2021-2026)
- Table 39. Global Titanium-Based MMO Anodes Revenue by Geographic Region (2021-2026) & (\$ millions)
- Table 40. Global Titanium-Based MMO Anodes Revenue Market Share by Geographic Region (2021-2026)
- Table 41. Global Titanium-Based MMO Anodes Sales by Country/Region (2021-2026) & (Sq m)
- Table 42. Global Titanium-Based MMO Anodes Sales Market Share by Country/Region (2021-2026)
- Table 43. Global Titanium-Based MMO Anodes Revenue by Country/Region (2021-2026) & (\$ millions)
- Table 44. Global Titanium-Based MMO Anodes Revenue Market Share by Country/Region (2021-2026)

Table 45. Americas Titanium-Based MMO Anodes Sales by Country (2021-2026) & (Sq m)

Table 46. Americas Titanium-Based MMO Anodes Sales Market Share by Country (2021-2026)

Table 47. Americas Titanium-Based MMO Anodes Revenue by Country (2021-2026) & (\$ millions)

Table 48. Americas Titanium-Based MMO Anodes Sales by Type (2021-2026) & (Sq m)

Table 49. Americas Titanium-Based MMO Anodes Sales by Application (2021-2026) & (Sq m)

Table 50. APAC Titanium-Based MMO Anodes Sales by Region (2021-2026) & (Sq m)

Table 51. APAC Titanium-Based MMO Anodes Sales Market Share by Region (2021-2026)

Table 52. APAC Titanium-Based MMO Anodes Revenue by Region (2021-2026) & (\$ millions)

Table 53. APAC Titanium-Based MMO Anodes Sales by Type (2021-2026) & (Sq m)

Table 54. APAC Titanium-Based MMO Anodes Sales by Application (2021-2026) & (Sq m)

Table 55. Europe Titanium-Based MMO Anodes Sales by Country (2021-2026) & (Sq m)

Table 56. Europe Titanium-Based MMO Anodes Revenue by Country (2021-2026) & (\$ millions)

Table 57. Europe Titanium-Based MMO Anodes Sales by Type (2021-2026) & (Sq m)

Table 58. Europe Titanium-Based MMO Anodes Sales by Application (2021-2026) & (Sq m)

Table 59. Middle East & Africa Titanium-Based MMO Anodes Sales by Country (2021-2026) & (Sq m)

Table 60. Middle East & Africa Titanium-Based MMO Anodes Revenue Market Share by Country (2021-2026)

Table 61. Middle East & Africa Titanium-Based MMO Anodes Sales by Type (2021-2026) & (Sq m)

Table 62. Middle East & Africa Titanium-Based MMO Anodes Sales by Application (2021-2026) & (Sq m)

Table 63. Key Market Drivers & Growth Opportunities of Titanium-Based MMO Anodes

Table 64. Key Market Challenges & Risks of Titanium-Based MMO Anodes

Table 65. Key Industry Trends of Titanium-Based MMO Anodes

Table 66. Titanium-Based MMO Anodes Raw Material

Table 67. Key Suppliers of Raw Materials

Table 68. Titanium-Based MMO Anodes Distributors List

Table 69. Titanium-Based MMO Anodes Customer List

Table 70. Global Titanium-Based MMO Anodes Sales Forecast by Region (2027-2032) & (Sq m)

Table 71. Global Titanium-Based MMO Anodes Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 72. Americas Titanium-Based MMO Anodes Sales Forecast by Country (2027-2032) & (Sq m)

Table 73. Americas Titanium-Based MMO Anodes Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 74. APAC Titanium-Based MMO Anodes Sales Forecast by Region (2027-2032) & (Sq m)

Table 75. APAC Titanium-Based MMO Anodes Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 76. Europe Titanium-Based MMO Anodes Sales Forecast by Country (2027-2032) & (Sq m)

Table 77. Europe Titanium-Based MMO Anodes Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 78. Middle East & Africa Titanium-Based MMO Anodes Sales Forecast by Country (2027-2032) & (Sq m)

Table 79. Middle East & Africa Titanium-Based MMO Anodes Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 80. Global Titanium-Based MMO Anodes Sales Forecast by Type (2027-2032) & (Sq m)

Table 81. Global Titanium-Based MMO Anodes Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 82. Global Titanium-Based MMO Anodes Sales Forecast by Application (2027-2032) & (Sq m)

Table 83. Global Titanium-Based MMO Anodes Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 84. De Nora Basic Information, Titanium-Based MMO Anodes Manufacturing Base, Sales Area and Its Competitors

Table 85. De Nora Titanium-Based MMO Anodes Product Portfolios and Specifications

Table 86. De Nora Titanium-Based MMO Anodes Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 87. De Nora Main Business

Table 88. De Nora Latest Developments

Table 89. Umicore Basic Information, Titanium-Based MMO Anodes Manufacturing Base, Sales Area and Its Competitors

Table 90. Umicore Titanium-Based MMO Anodes Product Portfolios and Specifications

Table 91. Umicore Titanium-Based MMO Anodes Sales (Sq m), Revenue (\$ Million),

Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 92. Umicore Main Business

Table 93. Umicore Latest Developments

Table 94. Permaskand Basic Information, Titanium-Based MMO Anodes Manufacturing Base, Sales Area and Its Competitors

Table 95. Permaskand Titanium-Based MMO Anodes Product Portfolios and Specifications

Table 96. Permaskand Titanium-Based MMO Anodes Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 97. Permaskand Main Business

Table 98. Permaskand Latest Developments

Table 99. Metso Basic Information, Titanium-Based MMO Anodes Manufacturing Base, Sales Area and Its Competitors

Table 100. Metso Titanium-Based MMO Anodes Product Portfolios and Specifications

Table 101. Metso Titanium-Based MMO Anodes Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 102. Metso Main Business

Table 103. Metso Latest Developments

Table 104. SPF Basic Information, Titanium-Based MMO Anodes Manufacturing Base, Sales Area and Its Competitors

Table 105. SPF Titanium-Based MMO Anodes Product Portfolios and Specifications

Table 106. SPF Titanium-Based MMO Anodes Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 107. SPF Main Business

Table 108. SPF Latest Developments

Table 109. Xi'an Taijin Xinneng Technology Basic Information, Titanium-Based MMO Anodes Manufacturing Base, Sales Area and Its Competitors

Table 110. Xi'an Taijin Xinneng Technology Titanium-Based MMO Anodes Product Portfolios and Specifications

Table 111. Xi'an Taijin Xinneng Technology Titanium-Based MMO Anodes Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 112. Xi'an Taijin Xinneng Technology Main Business

Table 113. Xi'an Taijin Xinneng Technology Latest Developments

Table 114. Baojichangli Special Metal Basic Information, Titanium-Based MMO Anodes Manufacturing Base, Sales Area and Its Competitors

Table 115. Baojichangli Special Metal Titanium-Based MMO Anodes Product Portfolios and Specifications

Table 116. Baojichangli Special Metal Titanium-Based MMO Anodes Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

- Table 117. Baojichangli Special Metal Main Business
- Table 118. Baojichangli Special Metal Latest Developments
- Table 119. Jiangyin Anuo Electrode Basic Information, Titanium-Based MMO Anodes Manufacturing Base, Sales Area and Its Competitors
- Table 120. Jiangyin Anuo Electrode Titanium-Based MMO Anodes Product Portfolios and Specifications
- Table 121. Jiangyin Anuo Electrode Titanium-Based MMO Anodes Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)
- Table 122. Jiangyin Anuo Electrode Main Business
- Table 123. Jiangyin Anuo Electrode Latest Developments
- Table 124. Jiangyin Miracle Electrolysis Equipment Basic Information, Titanium-Based MMO Anodes Manufacturing Base, Sales Area and Its Competitors
- Table 125. Jiangyin Miracle Electrolysis Equipment Titanium-Based MMO Anodes Product Portfolios and Specifications
- Table 126. Jiangyin Miracle Electrolysis Equipment Titanium-Based MMO Anodes Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)
- Table 127. Jiangyin Miracle Electrolysis Equipment Main Business
- Table 128. Jiangyin Miracle Electrolysis Equipment Latest Developments
- Table 129. Magneto Special Anodes Basic Information, Titanium-Based MMO Anodes Manufacturing Base, Sales Area and Its Competitors
- Table 130. Magneto Special Anodes Titanium-Based MMO Anodes Product Portfolios and Specifications
- Table 131. Magneto Special Anodes Titanium-Based MMO Anodes Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)
- Table 132. Magneto Special Anodes Main Business
- Table 133. Magneto Special Anodes Latest Developments
- Table 134. Baoji Qixin Titanium Basic Information, Titanium-Based MMO Anodes Manufacturing Base, Sales Area and Its Competitors
- Table 135. Baoji Qixin Titanium Titanium-Based MMO Anodes Product Portfolios and Specifications
- Table 136. Baoji Qixin Titanium Titanium-Based MMO Anodes Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)
- Table 137. Baoji Qixin Titanium Main Business
- Table 138. Baoji Qixin Titanium Latest Developments
- Table 139. Zhongrui Guoneng Technology Basic Information, Titanium-Based MMO Anodes Manufacturing Base, Sales Area and Its Competitors
- Table 140. Zhongrui Guoneng Technology Titanium-Based MMO Anodes Product Portfolios and Specifications
- Table 141. Zhongrui Guoneng Technology Titanium-Based MMO Anodes Sales (Sq m),

Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 142. Zhongrui Guoneng Technology Main Business

Table 143. Zhongrui Guoneng Technology Latest Developments

Table 144. Jiangsu Yi'anteng Special Electrode Basic Information, Titanium-Based MMO Anodes Manufacturing Base, Sales Area and Its Competitors

Table 145. Jiangsu Yi'anteng Special Electrode Titanium-Based MMO Anodes Product Portfolios and Specifications

Table 146. Jiangsu Yi'anteng Special Electrode Titanium-Based MMO Anodes Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 147. Jiangsu Yi'anteng Special Electrode Main Business

Table 148. Jiangsu Yi'anteng Special Electrode Latest Developments

Table 149. UTron Technology Basic Information, Titanium-Based MMO Anodes Manufacturing Base, Sales Area and Its Competitors

Table 150. UTron Technology Titanium-Based MMO Anodes Product Portfolios and Specifications

Table 151. UTron Technology Titanium-Based MMO Anodes Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 152. UTron Technology Main Business

Table 153. UTron Technology Latest Developments

Table 154. Baoji Ruicheng Titanium Basic Information, Titanium-Based MMO Anodes Manufacturing Base, Sales Area and Its Competitors

Table 155. Baoji Ruicheng Titanium Titanium-Based MMO Anodes Product Portfolios and Specifications

Table 156. Baoji Ruicheng Titanium Titanium-Based MMO Anodes Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 157. Baoji Ruicheng Titanium Main Business

Table 158. Baoji Ruicheng Titanium Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Titanium-Based MMO Anodes
- Figure 2. Titanium-Based MMO Anodes Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Titanium-Based MMO Anodes Sales Growth Rate 2021-2032 (Sq m)
- Figure 7. Global Titanium-Based MMO Anodes Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Titanium-Based MMO Anodes Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Titanium-Based MMO Anodes Sales Market Share by Country/Region (2025)
- Figure 10. Titanium-Based MMO Anodes Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Ruthenium-based Titanium Electrodes
- Figure 12. Product Picture of Iridium-based Titanium Electrodes
- Figure 13. Product Picture of Platinum-based Titanium Electrodes
- Figure 14. Product Picture of Others
- Figure 15. Global Titanium-Based MMO Anodes Sales Market Share by Type in 2026
- Figure 16. Global Titanium-Based MMO Anodes Revenue Market Share by Type (2021-2026)
- Figure 17. Product Picture of Mesh
- Figure 18. Product Picture of Plate
- Figure 19. Product Picture of Rod
- Figure 20. Product Picture of Tube
- Figure 21. Product Picture of Others
- Figure 22. Global Titanium-Based MMO Anodes Sales Market Share by Shape in 2026
- Figure 23. Global Titanium-Based MMO Anodes Revenue Market Share by Shape (2021-2026)
- Figure 24. Titanium-Based MMO Anodes Consumed in New Energy Batteries
- Figure 25. Global Titanium-Based MMO Anodes Market: New Energy Batteries (2021-2026) & (Sq m)
- Figure 26. Titanium-Based MMO Anodes Consumed in Electrolytic Copper Foil
- Figure 27. Global Titanium-Based MMO Anodes Market: Electrolytic Copper Foil (2021-2026) & (Sq m)
- Figure 28. Titanium-Based MMO Anodes Consumed in PCB Manufacturing

- Figure 29. Global Titanium-Based MMO Anodes Market: PCB Manufacturing (2021-2026) & (Sq m)
- Figure 30. Titanium-Based MMO Anodes Consumed in Hydrogen Production
- Figure 31. Global Titanium-Based MMO Anodes Market: Hydrogen Production (2021-2026) & (Sq m)
- Figure 32. Titanium-Based MMO Anodes Consumed in Wastewater Treatment
- Figure 33. Global Titanium-Based MMO Anodes Market: Wastewater Treatment (2021-2026) & (Sq m)
- Figure 34. Titanium-Based MMO Anodes Consumed in Others
- Figure 35. Global Titanium-Based MMO Anodes Market: Others (2021-2026) & (Sq m)
- Figure 36. Global Titanium-Based MMO Anodes Sale Market Share by Application (2025)
- Figure 37. Global Titanium-Based MMO Anodes Revenue Market Share by Application in 2025
- Figure 38. Titanium-Based MMO Anodes Sales by Company in 2025 (Sq m)
- Figure 39. Global Titanium-Based MMO Anodes Sales Market Share by Company in 2025
- Figure 40. Titanium-Based MMO Anodes Revenue by Company in 2025 (\$ millions)
- Figure 41. Global Titanium-Based MMO Anodes Revenue Market Share by Company in 2025
- Figure 42. Global Titanium-Based MMO Anodes Sales Market Share by Geographic Region (2021-2026)
- Figure 43. Global Titanium-Based MMO Anodes Revenue Market Share by Geographic Region in 2025
- Figure 44. Americas Titanium-Based MMO Anodes Sales 2021-2026 (Sq m)
- Figure 45. Americas Titanium-Based MMO Anodes Revenue 2021-2026 (\$ millions)
- Figure 46. APAC Titanium-Based MMO Anodes Sales 2021-2026 (Sq m)
- Figure 47. APAC Titanium-Based MMO Anodes Revenue 2021-2026 (\$ millions)
- Figure 48. Europe Titanium-Based MMO Anodes Sales 2021-2026 (Sq m)
- Figure 49. Europe Titanium-Based MMO Anodes Revenue 2021-2026 (\$ millions)
- Figure 50. Middle East & Africa Titanium-Based MMO Anodes Sales 2021-2026 (Sq m)
- Figure 51. Middle East & Africa Titanium-Based MMO Anodes Revenue 2021-2026 (\$ millions)
- Figure 52. Americas Titanium-Based MMO Anodes Sales Market Share by Country in 2025
- Figure 53. Americas Titanium-Based MMO Anodes Revenue Market Share by Country (2021-2026)
- Figure 54. Americas Titanium-Based MMO Anodes Sales Market Share by Type (2021-2026)

Figure 55. Americas Titanium-Based MMO Anodes Sales Market Share by Application (2021-2026)

Figure 56. United States Titanium-Based MMO Anodes Revenue Growth 2021-2026 (\$ millions)

Figure 57. Canada Titanium-Based MMO Anodes Revenue Growth 2021-2026 (\$ millions)

Figure 58. Mexico Titanium-Based MMO Anodes Revenue Growth 2021-2026 (\$ millions)

Figure 59. Brazil Titanium-Based MMO Anodes Revenue Growth 2021-2026 (\$ millions)

Figure 60. APAC Titanium-Based MMO Anodes Sales Market Share by Region in 2025

Figure 61. APAC Titanium-Based MMO Anodes Revenue Market Share by Region (2021-2026)

Figure 62. APAC Titanium-Based MMO Anodes Sales Market Share by Type (2021-2026)

Figure 63. APAC Titanium-Based MMO Anodes Sales Market Share by Application (2021-2026)

Figure 64. China Titanium-Based MMO Anodes Revenue Growth 2021-2026 (\$ millions)

Figure 65. Japan Titanium-Based MMO Anodes Revenue Growth 2021-2026 (\$ millions)

Figure 66. South Korea Titanium-Based MMO Anodes Revenue Growth 2021-2026 (\$ millions)

Figure 67. Southeast Asia Titanium-Based MMO Anodes Revenue Growth 2021-2026 (\$ millions)

Figure 68. India Titanium-Based MMO Anodes Revenue Growth 2021-2026 (\$ millions)

Figure 69. Australia Titanium-Based MMO Anodes Revenue Growth 2021-2026 (\$ millions)

Figure 70. China Taiwan Titanium-Based MMO Anodes Revenue Growth 2021-2026 (\$ millions)

Figure 71. Europe Titanium-Based MMO Anodes Sales Market Share by Country in 2025

Figure 72. Europe Titanium-Based MMO Anodes Revenue Market Share by Country (2021-2026)

Figure 73. Europe Titanium-Based MMO Anodes Sales Market Share by Type (2021-2026)

Figure 74. Europe Titanium-Based MMO Anodes Sales Market Share by Application (2021-2026)

Figure 75. Germany Titanium-Based MMO Anodes Revenue Growth 2021-2026 (\$ millions)

Figure 76. France Titanium-Based MMO Anodes Revenue Growth 2021-2026 (\$ millions)

Figure 77. UK Titanium-Based MMO Anodes Revenue Growth 2021-2026 (\$ millions)

Figure 78. Italy Titanium-Based MMO Anodes Revenue Growth 2021-2026 (\$ millions)

Figure 79. Russia Titanium-Based MMO Anodes Revenue Growth 2021-2026 (\$ millions)

Figure 80. Middle East & Africa Titanium-Based MMO Anodes Sales Market Share by Country (2021-2026)

Figure 81. Middle East & Africa Titanium-Based MMO Anodes Sales Market Share by Type (2021-2026)

Figure 82. Middle East & Africa Titanium-Based MMO Anodes Sales Market Share by Application (2021-2026)

Figure 83. Egypt Titanium-Based MMO Anodes Revenue Growth 2021-2026 (\$ millions)

Figure 84. South Africa Titanium-Based MMO Anodes Revenue Growth 2021-2026 (\$ millions)

Figure 85. Israel Titanium-Based MMO Anodes Revenue Growth 2021-2026 (\$ millions)

Figure 86. Turkey Titanium-Based MMO Anodes Revenue Growth 2021-2026 (\$ millions)

Figure 87. GCC Countries Titanium-Based MMO Anodes Revenue Growth 2021-2026 (\$ millions)

Figure 88. Manufacturing Cost Structure Analysis of Titanium-Based MMO Anodes in 2026

Figure 89. Manufacturing Process Analysis of Titanium-Based MMO Anodes

Figure 90. Industry Chain Structure of Titanium-Based MMO Anodes

Figure 91. Channels of Distribution

Figure 92. Global Titanium-Based MMO Anodes Sales Market Forecast by Region (2027-2032)

Figure 93. Global Titanium-Based MMO Anodes Revenue Market Share Forecast by Region (2027-2032)

Figure 94. Global Titanium-Based MMO Anodes Sales Market Share Forecast by Type (2027-2032)

Figure 95. Global Titanium-Based MMO Anodes Revenue Market Share Forecast by Type (2027-2032)

Figure 96. Global Titanium-Based MMO Anodes Sales Market Share Forecast by Application (2027-2032)

Figure 97. Global Titanium-Based MMO Anodes Revenue Market Share Forecast by Application (2027-2032)

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