

Global Titanium Anode Composite Materials Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Titanium Anode Composite Materials 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).

Titanium Anode Composite Materials 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 Anode Composite Materials 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.

This report studies the global Titanium Anode Composite Materials production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Titanium Anode Composite Materials total production and demand, 2021-2032, (Sq m)

Global Titanium Anode Composite Materials total production value, 2021-2032, (USD Million)

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

Global Titanium Anode Composite Materials consumption by region & country, CAGR, 2021-2032 & (Sq m)

U.S. VS China: Titanium Anode Composite Materials domestic production, consumption, key domestic manufacturers and share

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

Global Titanium Anode Composite Materials production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Sq m)

Global Titanium Anode Composite Materials production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Sq m)

This report profiles key players in the global Titanium Anode Composite Materials 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, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Titanium Anode Composite Materials 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 Titanium Anode Composite Materials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Titanium Anode Composite Materials Market, Segmentation by Type:

Ruthenium-based Titanium Electrodes

Iridium-based Titanium Electrodes

Platinum-based Titanium Electrodes

Others

Global Titanium Anode Composite Materials Market, Segmentation by Shape:

Mesh

Plate

Rod

Tube

Others

Global Titanium Anode Composite Materials 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 Titanium Anode Composite Materials market?
2. What is the demand of the global Titanium Anode Composite Materials market?
3. What is the year over year growth of the global Titanium Anode Composite Materials market?
4. What is the production and production value of the global Titanium Anode Composite

Materials market?

5. Who are the key producers in the global Titanium Anode Composite Materials market?

6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Semi-automatic Wafer Expander Introduction
- 1.2 World Semi-automatic Wafer Expander Supply & Forecast
 - 1.2.1 World Semi-automatic Wafer Expander Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Semi-automatic Wafer Expander Production (2021-2032)
 - 1.2.3 World Semi-automatic Wafer Expander Pricing Trends (2021-2032)
- 1.3 World Semi-automatic Wafer Expander Production by Region (Based on Production Site)
 - 1.3.1 World Semi-automatic Wafer Expander Production Value by Region (2021-2032)
 - 1.3.2 World Semi-automatic Wafer Expander Production by Region (2021-2032)
 - 1.3.3 World Semi-automatic Wafer Expander Average Price by Region (2021-2032)
 - 1.3.4 North America Semi-automatic Wafer Expander Production (2021-2032)
 - 1.3.5 Europe Semi-automatic Wafer Expander Production (2021-2032)
 - 1.3.6 China Semi-automatic Wafer Expander Production (2021-2032)
 - 1.3.7 Japan Semi-automatic Wafer Expander Production (2021-2032)
 - 1.3.8 South Korea Semi-automatic Wafer Expander Production (2021-2032)
 - 1.3.9 Southeast Asia Semi-automatic Wafer Expander Production (2021-2032)
 - 1.3.10 China Taiwan Semi-automatic Wafer Expander Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Semi-automatic Wafer Expander Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Semi-automatic Wafer Expander Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Semi-automatic Wafer Expander Demand (2021-2032)
- 2.2 World Semi-automatic Wafer Expander Consumption by Region
 - 2.2.1 World Semi-automatic Wafer Expander Consumption by Region (2021-2026)
 - 2.2.2 World Semi-automatic Wafer Expander Consumption Forecast by Region (2027-2032)
- 2.3 United States Semi-automatic Wafer Expander Consumption (2021-2032)
- 2.4 China Semi-automatic Wafer Expander Consumption (2021-2032)
- 2.5 Europe Semi-automatic Wafer Expander Consumption (2021-2032)
- 2.6 Japan Semi-automatic Wafer Expander Consumption (2021-2032)
- 2.7 South Korea Semi-automatic Wafer Expander Consumption (2021-2032)
- 2.8 ASEAN Semi-automatic Wafer Expander Consumption (2021-2032)

2.9 India Semi-automatic Wafer Expander Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Semi-automatic Wafer Expander Production Value by Manufacturer (2021-2026)

3.2 World Semi-automatic Wafer Expander Production by Manufacturer (2021-2026)

3.3 World Semi-automatic Wafer Expander Average Price by Manufacturer (2021-2026)

3.4 Semi-automatic Wafer Expander Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Semi-automatic Wafer Expander Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Semi-automatic Wafer Expander in 2025

3.5.3 Global Concentration Ratios (CR8) for Semi-automatic Wafer Expander in 2025

3.6 Semi-automatic Wafer Expander Market: Overall Company Footprint Analysis

3.6.1 Semi-automatic Wafer Expander Market: Region Footprint

3.6.2 Semi-automatic Wafer Expander Market: Company Product Type Footprint

3.6.3 Semi-automatic Wafer Expander Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Semi-automatic Wafer Expander Production Value Comparison

4.1.1 United States VS China: Semi-automatic Wafer Expander Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Semi-automatic Wafer Expander Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Semi-automatic Wafer Expander Production Comparison

4.2.1 United States VS China: Semi-automatic Wafer Expander Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Semi-automatic Wafer Expander Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Semi-automatic Wafer Expander Consumption Comparison

4.3.1 United States VS China: Semi-automatic Wafer Expander Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Semi-automatic Wafer Expander Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Semi-automatic Wafer Expander Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Semi-automatic Wafer Expander Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Semi-automatic Wafer Expander Production Value (2021-2026)

4.4.3 United States Based Manufacturers Semi-automatic Wafer Expander Production (2021-2026)

4.5 China Based Semi-automatic Wafer Expander Manufacturers and Market Share

4.5.1 China Based Semi-automatic Wafer Expander Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Semi-automatic Wafer Expander Production Value (2021-2026)

4.5.3 China Based Manufacturers Semi-automatic Wafer Expander Production (2021-2026)

4.6 Rest of World Based Semi-automatic Wafer Expander Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Semi-automatic Wafer Expander Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Semi-automatic Wafer Expander Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Semi-automatic Wafer Expander Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Semi-automatic Wafer Expander Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Tabletop

5.2.2 Vertical

5.3 Market Segment by Type

5.3.1 World Semi-automatic Wafer Expander Production by Type (2021-2032)

5.3.2 World Semi-automatic Wafer Expander Production Value by Type (2021-2032)

5.3.3 World Semi-automatic Wafer Expander Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY APPLICABLE MEMBRANE MATERIALS

6.1 World Semi-automatic Wafer Expander Market Size Overview by Applicable Membrane Materials: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Applicable Membrane Materials

6.2.1 Blue Film

6.2.2 UV Film

6.2.3 PO Film/EVA Film

6.3 Market Segment by Applicable Membrane Materials

6.3.1 World Semi-automatic Wafer Expander Production by Applicable Membrane Materials (2021-2032)

6.3.2 World Semi-automatic Wafer Expander Production Value by Applicable Membrane Materials (2021-2032)

6.3.3 World Semi-automatic Wafer Expander Average Price by Applicable Membrane Materials (2021-2032)

7 MARKET ANALYSIS BY COMPATIBLE WAFER SIZES

7.1 World Semi-automatic Wafer Expander Market Size Overview by Compatible Wafer Sizes: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Compatible Wafer Sizes

7.2.1 6 & 8 Inch Wafer

7.2.2 12 Inch Wafer

7.3 Market Segment by Compatible Wafer Sizes

7.3.1 World Semi-automatic Wafer Expander Production by Compatible Wafer Sizes (2021-2032)

7.3.2 World Semi-automatic Wafer Expander Production Value by Compatible Wafer Sizes (2021-2032)

7.3.3 World Semi-automatic Wafer Expander Average Price by Compatible Wafer Sizes (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Semi-automatic Wafer Expander Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 LED Chip Manufacturing

8.2.2 Semiconductor IC Packaging

8.2.3 Power Devices

8.2.4 Advanced Packaging (WLP)

8.2.5 Other

8.3 Market Segment by Application

8.3.1 World Semi-automatic Wafer Expander Production by Application (2021-2032)

8.3.2 World Semi-automatic Wafer Expander Production Value by Application (2021-2032)

8.3.3 World Semi-automatic Wafer Expander Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 DISCO

9.1.1 DISCO Details

9.1.2 DISCO Major Business

9.1.3 DISCO Semi-automatic Wafer Expander Product and Services

9.1.4 DISCO Semi-automatic Wafer Expander Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 DISCO Recent Developments/Updates

9.1.6 DISCO Competitive Strengths & Weaknesses

9.2 Ohmiya Industry

9.2.1 Ohmiya Industry Details

9.2.2 Ohmiya Industry Major Business

9.2.3 Ohmiya Industry Semi-automatic Wafer Expander Product and Services

9.2.4 Ohmiya Industry Semi-automatic Wafer Expander Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Ohmiya Industry Recent Developments/Updates

9.2.6 Ohmiya Industry Competitive Strengths & Weaknesses

9.3 Dynatex International

9.3.1 Dynatex International Details

9.3.2 Dynatex International Major Business

9.3.3 Dynatex International Semi-automatic Wafer Expander Product and Services

9.3.4 Dynatex International Semi-automatic Wafer Expander Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Dynatex International Recent Developments/Updates

9.3.6 Dynatex International Competitive Strengths & Weaknesses

9.4 Techvision

9.4.1 Techvision Details

9.4.2 Techvision Major Business

- 9.4.3 Techvision Semi-automatic Wafer Expander Product and Services
- 9.4.4 Techvision Semi-automatic Wafer Expander Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.4.5 Techvision Recent Developments/Updates
- 9.4.6 Techvision Competitive Strengths & Weaknesses
- 9.5 Semiconductor Equipment Corp
 - 9.5.1 Semiconductor Equipment Corp Details
 - 9.5.2 Semiconductor Equipment Corp Major Business
 - 9.5.3 Semiconductor Equipment Corp Semi-automatic Wafer Expander Product and Services
 - 9.5.4 Semiconductor Equipment Corp Semi-automatic Wafer Expander Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Semiconductor Equipment Corp Recent Developments/Updates
 - 9.5.6 Semiconductor Equipment Corp Competitive Strengths & Weaknesses
- 9.6 Toyo Adtec
 - 9.6.1 Toyo Adtec Details
 - 9.6.2 Toyo Adtec Major Business
 - 9.6.3 Toyo Adtec Semi-automatic Wafer Expander Product and Services
 - 9.6.4 Toyo Adtec Semi-automatic Wafer Expander Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Toyo Adtec Recent Developments/Updates
 - 9.6.6 Toyo Adtec Competitive Strengths & Weaknesses
- 9.7 Ultron Systems
 - 9.7.1 Ultron Systems Details
 - 9.7.2 Ultron Systems Major Business
 - 9.7.3 Ultron Systems Semi-automatic Wafer Expander Product and Services
 - 9.7.4 Ultron Systems Semi-automatic Wafer Expander Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Ultron Systems Recent Developments/Updates
 - 9.7.6 Ultron Systems Competitive Strengths & Weaknesses
- 9.8 Powatec
 - 9.8.1 Powatec Details
 - 9.8.2 Powatec Major Business
 - 9.8.3 Powatec Semi-automatic Wafer Expander Product and Services
 - 9.8.4 Powatec Semi-automatic Wafer Expander Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Powatec Recent Developments/Updates
 - 9.8.6 Powatec Competitive Strengths & Weaknesses
- 9.9 NeonTech

- 9.9.1 NeonTech Details
- 9.9.2 NeonTech Major Business
- 9.9.3 NeonTech Semi-automatic Wafer Expander Product and Services
- 9.9.4 NeonTech Semi-automatic Wafer Expander Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.9.5 NeonTech Recent Developments/Updates
- 9.9.6 NeonTech Competitive Strengths & Weaknesses
- 9.10 CHN.GIE
 - 9.10.1 CHN.GIE Details
 - 9.10.2 CHN.GIE Major Business
 - 9.10.3 CHN.GIE Semi-automatic Wafer Expander Product and Services
 - 9.10.4 CHN.GIE Semi-automatic Wafer Expander Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 CHN.GIE Recent Developments/Updates
 - 9.10.6 CHN.GIE Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Semi-automatic Wafer Expander Industry Chain
- 10.2 Semi-automatic Wafer Expander Upstream Analysis
 - 10.2.1 Semi-automatic Wafer Expander Core Raw Materials
 - 10.2.2 Main Manufacturers of Semi-automatic Wafer Expander Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Semi-automatic Wafer Expander Production Mode
- 10.6 Semi-automatic Wafer Expander Procurement Model
- 10.7 Semi-automatic Wafer Expander Industry Sales Model and Sales Channels
 - 10.7.1 Semi-automatic Wafer Expander Sales Model
 - 10.7.2 Semi-automatic Wafer Expander Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Titanium Anode Composite Materials Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Titanium Anode Composite Materials Production Value by Region (2021-2026) & (USD Million)

Table 3. World Titanium Anode Composite Materials Production Value by Region (2027-2032) & (USD Million)

Table 4. World Titanium Anode Composite Materials Production Value Market Share by Region (2021-2026)

Table 5. World Titanium Anode Composite Materials Production Value Market Share by Region (2027-2032)

Table 6. World Titanium Anode Composite Materials Production by Region (2021-2026) & (Sq m)

Table 7. World Titanium Anode Composite Materials Production by Region (2027-2032) & (Sq m)

Table 8. World Titanium Anode Composite Materials Production Market Share by Region (2021-2026)

Table 9. World Titanium Anode Composite Materials Production Market Share by Region (2027-2032)

Table 10. World Titanium Anode Composite Materials Average Price by Region (2021-2026) & (US\$/Sq m)

Table 11. World Titanium Anode Composite Materials Average Price by Region (2027-2032) & (US\$/Sq m)

Table 12. Titanium Anode Composite Materials Major Market Trends

Table 13. World Titanium Anode Composite Materials Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Sq m)

Table 14. World Titanium Anode Composite Materials Consumption by Region (2021-2026) & (Sq m)

Table 15. World Titanium Anode Composite Materials Consumption Forecast by Region (2027-2032) & (Sq m)

Table 16. World Titanium Anode Composite Materials Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Titanium Anode Composite Materials Producers in 2025

Table 18. World Titanium Anode Composite Materials Production by Manufacturer (2021-2026) & (Sq m)

Table 19. Production Market Share of Key Titanium Anode Composite Materials Producers in 2025

Table 20. World Titanium Anode Composite Materials Average Price by Manufacturer (2021-2026) & (US\$/Sq m)

Table 21. Global Titanium Anode Composite Materials Company Evaluation Quadrant

Table 22. World Titanium Anode Composite Materials Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Titanium Anode Composite Materials Production Site of Key Manufacturer

Table 24. Titanium Anode Composite Materials Market: Company Product Type Footprint

Table 25. Titanium Anode Composite Materials Market: Company Product Application Footprint

Table 26. Titanium Anode Composite Materials Competitive Factors

Table 27. Titanium Anode Composite Materials New Entrant and Capacity Expansion Plans

Table 28. Titanium Anode Composite Materials Mergers & Acquisitions Activity

Table 29. United States VS China Titanium Anode Composite Materials Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Titanium Anode Composite Materials Production Comparison, (2021 & 2025 & 2032) & (Sq m)

Table 31. United States VS China Titanium Anode Composite Materials Consumption Comparison, (2021 & 2025 & 2032) & (Sq m)

Table 32. United States Based Titanium Anode Composite Materials Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Titanium Anode Composite Materials Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Titanium Anode Composite Materials Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Titanium Anode Composite Materials Production (2021-2026) & (Sq m)

Table 36. United States Based Manufacturers Titanium Anode Composite Materials Production Market Share (2021-2026)

Table 37. China Based Titanium Anode Composite Materials Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Titanium Anode Composite Materials Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Titanium Anode Composite Materials Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Titanium Anode Composite Materials Production, (2021-2026) & (Sq m)

Table 41. China Based Manufacturers Titanium Anode Composite Materials Production Market Share (2021-2026)

Table 42. Rest of World Based Titanium Anode Composite Materials Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Titanium Anode Composite Materials Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Titanium Anode Composite Materials Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Titanium Anode Composite Materials Production, (2021-2026) & (Sq m)

Table 46. Rest of World Based Manufacturers Titanium Anode Composite Materials Production Market Share (2021-2026)

Table 47. World Titanium Anode Composite Materials Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Titanium Anode Composite Materials Production by Type (2021-2026) & (Sq m)

Table 49. World Titanium Anode Composite Materials Production by Type (2027-2032) & (Sq m)

Table 50. World Titanium Anode Composite Materials Production Value by Type (2021-2026) & (USD Million)

Table 51. World Titanium Anode Composite Materials Production Value by Type (2027-2032) & (USD Million)

Table 52. World Titanium Anode Composite Materials Average Price by Type (2021-2026) & (US\$/Sq m)

Table 53. World Titanium Anode Composite Materials Average Price by Type (2027-2032) & (US\$/Sq m)

Table 54. World Titanium Anode Composite Materials Production Value by Shape, (USD Million), 2021 & 2025 & 2032

Table 55. World Titanium Anode Composite Materials Production by Shape (2021-2026) & (Sq m)

Table 56. World Titanium Anode Composite Materials Production by Shape (2027-2032) & (Sq m)

Table 57. World Titanium Anode Composite Materials Production Value by Shape (2021-2026) & (USD Million)

Table 58. World Titanium Anode Composite Materials Production Value by Shape (2027-2032) & (USD Million)

Table 59. World Titanium Anode Composite Materials Average Price by Shape

(2021-2026) & (US\$/Sq m)

Table 60. World Titanium Anode Composite Materials Average Price by Shape

(2027-2032) & (US\$/Sq m)

Table 61. World Titanium Anode Composite Materials Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Titanium Anode Composite Materials Production by Application (2021-2026) & (Sq m)

Table 63. World Titanium Anode Composite Materials Production by Application (2027-2032) & (Sq m)

Table 64. World Titanium Anode Composite Materials Production Value by Application (2021-2026) & (USD Million)

Table 65. World Titanium Anode Composite Materials Production Value by Application (2027-2032) & (USD Million)

Table 66. World Titanium Anode Composite Materials Average Price by Application (2021-2026) & (US\$/Sq m)

Table 67. World Titanium Anode Composite Materials Average Price by Application (2027-2032) & (US\$/Sq m)

Table 68. De Nora Basic Information, Manufacturing Base and Competitors

Table 69. De Nora Major Business

Table 70. De Nora Titanium Anode Composite Materials Product and Services

Table 71. De Nora Titanium Anode Composite Materials Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. De Nora Recent Developments/Updates

Table 73. De Nora Competitive Strengths & Weaknesses

Table 74. Umicore Basic Information, Manufacturing Base and Competitors

Table 75. Umicore Major Business

Table 76. Umicore Titanium Anode Composite Materials Product and Services

Table 77. Umicore Titanium Anode Composite Materials Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Umicore Recent Developments/Updates

Table 79. Umicore Competitive Strengths & Weaknesses

Table 80. Permaskand Basic Information, Manufacturing Base and Competitors

Table 81. Permaskand Major Business

Table 82. Permaskand Titanium Anode Composite Materials Product and Services

Table 83. Permaskand Titanium Anode Composite Materials Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 84. Permaskand Recent Developments/Updates
- Table 85. Permaskand Competitive Strengths & Weaknesses
- Table 86. Metso Basic Information, Manufacturing Base and Competitors
- Table 87. Metso Major Business
- Table 88. Metso Titanium Anode Composite Materials Product and Services
- Table 89. Metso Titanium Anode Composite Materials Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 90. Metso Recent Developments/Updates
- Table 91. Metso Competitive Strengths & Weaknesses
- Table 92. SPF Basic Information, Manufacturing Base and Competitors
- Table 93. SPF Major Business
- Table 94. SPF Titanium Anode Composite Materials Product and Services
- Table 95. SPF Titanium Anode Composite Materials Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 96. SPF Recent Developments/Updates
- Table 97. SPF Competitive Strengths & Weaknesses
- Table 98. Xi'an Taijin Xinneng Technology Basic Information, Manufacturing Base and Competitors
- Table 99. Xi'an Taijin Xinneng Technology Major Business
- Table 100. Xi'an Taijin Xinneng Technology Titanium Anode Composite Materials Product and Services
- Table 101. Xi'an Taijin Xinneng Technology Titanium Anode Composite Materials Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 102. Xi'an Taijin Xinneng Technology Recent Developments/Updates
- Table 103. Xi'an Taijin Xinneng Technology Competitive Strengths & Weaknesses
- Table 104. Baojichangli Special Metal Basic Information, Manufacturing Base and Competitors
- Table 105. Baojichangli Special Metal Major Business
- Table 106. Baojichangli Special Metal Titanium Anode Composite Materials Product and Services
- Table 107. Baojichangli Special Metal Titanium Anode Composite Materials Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 108. Baojichangli Special Metal Recent Developments/Updates
- Table 109. Baojichangli Special Metal Competitive Strengths & Weaknesses
- Table 110. Jiangyin Anuo Electrode Basic Information, Manufacturing Base and Competitors

Table 111. Jiangyin Anuo Electrode Major Business

Table 112. Jiangyin Anuo Electrode Titanium Anode Composite Materials Product and Services

Table 113. Jiangyin Anuo Electrode Titanium Anode Composite Materials Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. Jiangyin Anuo Electrode Recent Developments/Updates

Table 115. Jiangyin Anuo Electrode Competitive Strengths & Weaknesses

Table 116. Jiangyin Miracle Electrolysis Equipment Basic Information, Manufacturing Base and Competitors

Table 117. Jiangyin Miracle Electrolysis Equipment Major Business

Table 118. Jiangyin Miracle Electrolysis Equipment Titanium Anode Composite Materials Product and Services

Table 119. Jiangyin Miracle Electrolysis Equipment Titanium Anode Composite Materials Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. Jiangyin Miracle Electrolysis Equipment Recent Developments/Updates

Table 121. Jiangyin Miracle Electrolysis Equipment Competitive Strengths & Weaknesses

Table 122. Magneto Special Anodes Basic Information, Manufacturing Base and Competitors

Table 123. Magneto Special Anodes Major Business

Table 124. Magneto Special Anodes Titanium Anode Composite Materials Product and Services

Table 125. Magneto Special Anodes Titanium Anode Composite Materials Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 126. Magneto Special Anodes Recent Developments/Updates

Table 127. Magneto Special Anodes Competitive Strengths & Weaknesses

Table 128. Baoji Qixin Titanium Basic Information, Manufacturing Base and Competitors

Table 129. Baoji Qixin Titanium Major Business

Table 130. Baoji Qixin Titanium Titanium Anode Composite Materials Product and Services

Table 131. Baoji Qixin Titanium Titanium Anode Composite Materials Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 132. Baoji Qixin Titanium Recent Developments/Updates

Table 133. Baoji Qixin Titanium Competitive Strengths & Weaknesses

Table 134. Zhongrui Guoneng Technology Basic Information, Manufacturing Base and

Competitors

Table 135. Zhongrui Guoneng Technology Major Business

Table 136. Zhongrui Guoneng Technology Titanium Anode Composite Materials Product and Services

Table 137. Zhongrui Guoneng Technology Titanium Anode Composite Materials Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 138. Zhongrui Guoneng Technology Recent Developments/Updates

Table 139. Zhongrui Guoneng Technology Competitive Strengths & Weaknesses

Table 140. Jiangsu Yi'anteng Special Electrode Basic Information, Manufacturing Base and Competitors

Table 141. Jiangsu Yi'anteng Special Electrode Major Business

Table 142. Jiangsu Yi'anteng Special Electrode Titanium Anode Composite Materials Product and Services

Table 143. Jiangsu Yi'anteng Special Electrode Titanium Anode Composite Materials Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 144. Jiangsu Yi'anteng Special Electrode Recent Developments/Updates

Table 145. Jiangsu Yi'anteng Special Electrode Competitive Strengths & Weaknesses

Table 146. UTron Technology Basic Information, Manufacturing Base and Competitors

Table 147. UTron Technology Major Business

Table 148. UTron Technology Titanium Anode Composite Materials Product and Services

Table 149. UTron Technology Titanium Anode Composite Materials Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 150. UTron Technology Recent Developments/Updates

Table 151. UTron Technology Competitive Strengths & Weaknesses

Table 152. Baoji Ruicheng Titanium Basic Information, Manufacturing Base and Competitors

Table 153. Baoji Ruicheng Titanium Major Business

Table 154. Baoji Ruicheng Titanium Titanium Anode Composite Materials Product and Services

Table 155. Baoji Ruicheng Titanium Titanium Anode Composite Materials Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 156. Baoji Ruicheng Titanium Recent Developments/Updates

Table 157. Baoji Ruicheng Titanium Competitive Strengths & Weaknesses

Table 158. Global Key Players of Titanium Anode Composite Materials Upstream (Raw

Materials)

Table 159. Global Titanium Anode Composite Materials Typical Customers

Table 160. Titanium Anode Composite Materials Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Titanium Anode Composite Materials Picture
- Figure 2. World Titanium Anode Composite Materials Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Titanium Anode Composite Materials Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Titanium Anode Composite Materials Production (2021-2032) & (Sq m)
- Figure 5. World Titanium Anode Composite Materials Average Price (2021-2032) & (US\$/Sq m)
- Figure 6. World Titanium Anode Composite Materials Production Value Market Share by Region (2021-2032)
- Figure 7. World Titanium Anode Composite Materials Production Market Share by Region (2021-2032)
- Figure 8. North America Titanium Anode Composite Materials Production (2021-2032) & (Sq m)
- Figure 9. Europe Titanium Anode Composite Materials Production (2021-2032) & (Sq m)
- Figure 10. China Titanium Anode Composite Materials Production (2021-2032) & (Sq m)
- Figure 11. Japan Titanium Anode Composite Materials Production (2021-2032) & (Sq m)
- Figure 12. India Titanium Anode Composite Materials Production (2021-2032) & (Sq m)
- Figure 13. Southeast Asia Titanium Anode Composite Materials Production (2021-2032) & (Sq m)
- Figure 14. Titanium Anode Composite Materials Market Drivers
- Figure 15. Factors Affecting Demand
- Figure 16. World Titanium Anode Composite Materials Consumption (2021-2032) & (Sq m)
- Figure 17. World Titanium Anode Composite Materials Consumption Market Share by Region (2021-2032)
- Figure 18. United States Titanium Anode Composite Materials Consumption (2021-2032) & (Sq m)
- Figure 19. China Titanium Anode Composite Materials Consumption (2021-2032) & (Sq m)
- Figure 20. Europe Titanium Anode Composite Materials Consumption (2021-2032) & (Sq m)

Figure 21. Japan Titanium Anode Composite Materials Consumption (2021-2032) & (Sq m)

Figure 22. South Korea Titanium Anode Composite Materials Consumption (2021-2032) & (Sq m)

Figure 23. ASEAN Titanium Anode Composite Materials Consumption (2021-2032) & (Sq m)

Figure 24. India Titanium Anode Composite Materials Consumption (2021-2032) & (Sq m)

Figure 25. Producer Shipments of Titanium Anode Composite Materials by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Titanium Anode Composite Materials Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Titanium Anode Composite Materials Markets in 2025

Figure 28. United States VS China: Titanium Anode Composite Materials Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Titanium Anode Composite Materials Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Titanium Anode Composite Materials Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Titanium Anode Composite Materials Production Market Share 2025

Figure 32. China Based Manufacturers Titanium Anode Composite Materials Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Titanium Anode Composite Materials Production Market Share 2025

Figure 34. World Titanium Anode Composite Materials Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Titanium Anode Composite Materials Production Value Market Share by Type in 2025

Figure 36. Ruthenium-based Titanium Electrodes

Figure 37. Iridium-based Titanium Electrodes

Figure 38. Platinum-based Titanium Electrodes

Figure 39. Others

Figure 40. World Titanium Anode Composite Materials Production Market Share by Type (2021-2032)

Figure 41. World Titanium Anode Composite Materials Production Value Market Share by Type (2021-2032)

Figure 42. World Titanium Anode Composite Materials Average Price by Type

(2021-2032) & (US\$/Sq m)

Figure 43. World Titanium Anode Composite Materials Production Value by Shape, (USD Million), 2021 & 2025 & 2032

Figure 44. World Titanium Anode Composite Materials Production Value Market Share by Shape in 2025

Figure 45. Mesh

Figure 46. Plate

Figure 47. Rod

Figure 48. Tube

Figure 49. Others

Figure 50. World Titanium Anode Composite Materials Production Market Share by Shape (2021-2032)

Figure 51. World Titanium Anode Composite Materials Production Value Market Share by Shape (2021-2032)

Figure 52. World Titanium Anode Composite Materials Average Price by Shape (2021-2032) & (US\$/Sq m)

Figure 53. World Titanium Anode Composite Materials Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 54. World Titanium Anode Composite Materials Production Value Market Share by Application in 2025

Figure 55. New Energy Batteries

Figure 56. Electrolytic Copper Foil

Figure 57. PCB Manufacturing

Figure 58. Hydrogen Production

Figure 59. Wastewater Treatment

Figure 60. Others

Figure 61. World Titanium Anode Composite Materials Production Market Share by Application (2021-2032)

Figure 62. World Titanium Anode Composite Materials Production Value Market Share by Application (2021-2032)

Figure 63. World Titanium Anode Composite Materials Average Price by Application (2021-2032) & (US\$/Sq m)

Figure 64. Titanium Anode Composite Materials Industry Chain

Figure 65. Titanium Anode Composite Materials Procurement Model

Figure 66. Titanium Anode Composite Materials Sales Model

Figure 67. Titanium Anode Composite Materials Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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