

# Global Thin-film Electrode Market Growth 2026-2032

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## Abstracts

The global Thin-film Electrode market size is predicted to grow from US\$ 2679 million in 2025 to US\$ 5434 million in 2032; it is expected to grow at a CAGR of 10.7% from 2026 to 2032.

A thin-film electrode is a functional electrode layer deposited as an ultra-thin coating (typically nanometers to a few micrometers thick) onto a substrate to enable electrochemical, electronic, sensing, or energy-storage performance with high surface uniformity, low material usage, and precise interface control; these electrodes are widely used in lithium-ion and solid-state batteries, fuel cells, supercapacitors, MEMS sensors, photovoltaics, displays, and semiconductor devices. The supply chain begins upstream with high-purity metals and compounds (e.g., lithium, nickel, cobalt, manganese, copper, aluminum, indium tin oxide, platinum, conductive polymers) and specialty targets or precursor chemicals produced by materials firms; the midstream layer involves thin-film fabrication technologies such as physical vapor deposition (PVD sputtering/evaporation), chemical vapor deposition (CVD/ALD), electrochemical deposition, printing, and sol-gel coating executed by equipment OEMs and contract coating providers; downstream, battery manufacturers, semiconductor fabs, sensor makers, and energy device OEMs integrate thin-film electrodes into cells, chips, and modules, where performance is driven by film thickness control, adhesion, conductivity, and interface engineering, making deposition know-how and materials purity key strategic bottlenecks in the advanced materials 'invisible layer.' In 2025, global thin-film electrode output was about 110 million m<sup>2</sup>, with 150 million m<sup>2</sup> annual capacity. Average pricing ranges USD 18–45 per m<sup>2</sup>, and gross margins are roughly 28%.

United States market for Thin-film Electrode 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 Thin-film Electrode 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 Thin-film Electrode is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Thin-film Electrode players cover Umicore (Belgium), Materion (USA), Plansee Group (Austria), Heraeus (Germany), Proterial (Japan), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

This Insight Report provides a comprehensive analysis of the global Thin-film Electrode 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 Thin-film Electrode portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Thin-film Electrode market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Thin-film Electrode 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 Thin-film Electrode.

This report presents a comprehensive overview, market shares, and growth opportunities of Thin-film Electrode market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Metal-based Film

Carbon-based Film

Polymer-based Film

Segmentation by Deposition:

Physical Vapor Deposition (PVD)

Chemical Vapor Deposition (CVD)

Electrochemical Deposition (ECD)

Segmentation by Application:

Energy Storage

Semiconductor

Photovoltaic

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.

Umicore (Belgium)

Materion (USA)

Plansee Group (Austria)

Heraeus (Germany)

Proterial (Japan)

JX Advanced Metals (Japan)

Sumitomo (Japan)

Mitsui (Japan)

TANAKA (Japan)

Linde (Ireland)

#### Key Questions Addressed in this Report

What is the 10-year outlook for the global Thin-film Electrode market?

What factors are driving Thin-film Electrode market growth, globally and by region?

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

How do Thin-film Electrode market opportunities vary by end market size?

How does Thin-film Electrode 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 Thin-film Electrode Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Thin-film Electrode by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Thin-film Electrode by Country/Region, 2021, 2025 & 2032

#### 2.2 Thin-film Electrode Segment by Type

- 2.2.1 Metal-based Film
- 2.2.2 Carbon-based Film
- 2.2.3 Polymer-based Film
- 2.2.4 Thin-film Electrode Sales by Type
  - 2.2.4.1 Global Thin-film Electrode Sales Market Share by Type (2021-2026)
  - 2.2.4.2 Global Thin-film Electrode Revenue and Market Share by Type (2021-2026)
  - 2.2.4.3 Global Thin-film Electrode Sale Price by Type (2021-2026)

#### 2.3 Thin-film Electrode Segment by Deposition

- 2.3.1 Physical Vapor Deposition (PVD)
- 2.3.2 Chemical Vapor Deposition (CVD)
- 2.3.3 Electrochemical Deposition (ECD)
- 2.3.4 Thin-film Electrode Sales by Deposition
  - 2.3.4.1 Global Thin-film Electrode Sales Market Share by Deposition (2021-2026)
  - 2.3.4.2 Global Thin-film Electrode Revenue and Market Share by Deposition (2021-2026)
  - 2.3.4.3 Global Thin-film Electrode Sale Price by Deposition (2021-2026)

#### 2.4 Thin-film Electrode Segment by Application

- 2.4.1 Energy Storage
- 2.4.2 Semiconductor
- 2.4.3 Photovoltaic
- 2.4.4 Others
- 2.4.5 Thin-film Electrode Sales by Application
  - 2.4.5.1 Global Thin-film Electrode Sale Market Share by Application (2021-2026)
  - 2.4.5.2 Global Thin-film Electrode Revenue and Market Share by Application (2021-2026)
  - 2.4.5.3 Global Thin-film Electrode Sale Price by Application (2021-2026)

### **3 GLOBAL BY COMPANY**

- 3.1 Global Thin-film Electrode Breakdown Data by Company
  - 3.1.1 Global Thin-film Electrode Annual Sales by Company (2021-2026)
  - 3.1.2 Global Thin-film Electrode Sales Market Share by Company (2021-2026)
- 3.2 Global Thin-film Electrode Annual Revenue by Company (2021-2026)
  - 3.2.1 Global Thin-film Electrode Revenue by Company (2021-2026)
  - 3.2.2 Global Thin-film Electrode Revenue Market Share by Company (2021-2026)
- 3.3 Global Thin-film Electrode Sale Price by Company
- 3.4 Key Manufacturers Thin-film Electrode Producing Area Distribution, Sales Area, Product Type
  - 3.4.1 Key Manufacturers Thin-film Electrode Product Location Distribution
  - 3.4.2 Players Thin-film Electrode 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 THIN-FILM ELECTRODE BY GEOGRAPHIC REGION**

- 4.1 World Historic Thin-film Electrode Market Size by Geographic Region (2021-2026)
  - 4.1.1 Global Thin-film Electrode Annual Sales by Geographic Region (2021-2026)
  - 4.1.2 Global Thin-film Electrode Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Thin-film Electrode Market Size by Country/Region (2021-2026)
  - 4.2.1 Global Thin-film Electrode Annual Sales by Country/Region (2021-2026)
  - 4.2.2 Global Thin-film Electrode Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Thin-film Electrode Sales Growth

- 4.4 APAC Thin-film Electrode Sales Growth
- 4.5 Europe Thin-film Electrode Sales Growth
- 4.6 Middle East & Africa Thin-film Electrode Sales Growth

## **5 AMERICAS**

- 5.1 Americas Thin-film Electrode Sales by Country
  - 5.1.1 Americas Thin-film Electrode Sales by Country (2021-2026)
  - 5.1.2 Americas Thin-film Electrode Revenue by Country (2021-2026)
- 5.2 Americas Thin-film Electrode Sales by Type (2021-2026)
- 5.3 Americas Thin-film Electrode Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

## **6 APAC**

- 6.1 APAC Thin-film Electrode Sales by Region
  - 6.1.1 APAC Thin-film Electrode Sales by Region (2021-2026)
  - 6.1.2 APAC Thin-film Electrode Revenue by Region (2021-2026)
- 6.2 APAC Thin-film Electrode Sales by Type (2021-2026)
- 6.3 APAC Thin-film Electrode 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 Thin-film Electrode by Country
  - 7.1.1 Europe Thin-film Electrode Sales by Country (2021-2026)
  - 7.1.2 Europe Thin-film Electrode Revenue by Country (2021-2026)
- 7.2 Europe Thin-film Electrode Sales by Type (2021-2026)
- 7.3 Europe Thin-film Electrode 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 Thin-film Electrode by Country
  - 8.1.1 Middle East & Africa Thin-film Electrode Sales by Country (2021-2026)
  - 8.1.2 Middle East & Africa Thin-film Electrode Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Thin-film Electrode Sales by Type (2021-2026)
- 8.3 Middle East & Africa Thin-film Electrode 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 Thin-film Electrode
- 10.3 Manufacturing Process Analysis of Thin-film Electrode
- 10.4 Industry Chain Structure of Thin-film Electrode

## **11 MARKETING, DISTRIBUTORS AND CUSTOMER**

- 11.1 Sales Channel
  - 11.1.1 Direct Channels
  - 11.1.2 Indirect Channels
- 11.2 Thin-film Electrode Distributors
- 11.3 Thin-film Electrode Customer

## **12 WORLD FORECAST REVIEW FOR THIN-FILM ELECTRODE BY GEOGRAPHIC REGION**

- 12.1 Global Thin-film Electrode Market Size Forecast by Region
  - 12.1.1 Global Thin-film Electrode Forecast by Region (2027-2032)
  - 12.1.2 Global Thin-film Electrode 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 Thin-film Electrode Forecast by Type (2027-2032)
- 12.7 Global Thin-film Electrode Forecast by Application (2027-2032)

## **13 KEY PLAYERS ANALYSIS**

- 13.1 Umicore (Belgium)
  - 13.1.1 Umicore (Belgium) Company Information
  - 13.1.2 Umicore (Belgium) Thin-film Electrode Product Portfolios and Specifications
  - 13.1.3 Umicore (Belgium) Thin-film Electrode Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.1.4 Umicore (Belgium) Main Business Overview
  - 13.1.5 Umicore (Belgium) Latest Developments
- 13.2 Materion (USA)
  - 13.2.1 Materion (USA) Company Information
  - 13.2.2 Materion (USA) Thin-film Electrode Product Portfolios and Specifications
  - 13.2.3 Materion (USA) Thin-film Electrode Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.2.4 Materion (USA) Main Business Overview
  - 13.2.5 Materion (USA) Latest Developments
- 13.3 Plansee Group (Austria)
  - 13.3.1 Plansee Group (Austria) Company Information
  - 13.3.2 Plansee Group (Austria) Thin-film Electrode Product Portfolios and Specifications
  - 13.3.3 Plansee Group (Austria) Thin-film Electrode Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.3.4 Plansee Group (Austria) Main Business Overview
  - 13.3.5 Plansee Group (Austria) Latest Developments
- 13.4 Heraeus (Germany)
  - 13.4.1 Heraeus (Germany) Company Information

- 13.4.2 Heraeus (Germany) Thin-film Electrode Product Portfolios and Specifications
- 13.4.3 Heraeus (Germany) Thin-film Electrode Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.4.4 Heraeus (Germany) Main Business Overview
- 13.4.5 Heraeus (Germany) Latest Developments
- 13.5 Proterial (Japan)
  - 13.5.1 Proterial (Japan) Company Information
  - 13.5.2 Proterial (Japan) Thin-film Electrode Product Portfolios and Specifications
  - 13.5.3 Proterial (Japan) Thin-film Electrode Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.5.4 Proterial (Japan) Main Business Overview
  - 13.5.5 Proterial (Japan) Latest Developments
- 13.6 JX Advanced Metals (Japan)
  - 13.6.1 JX Advanced Metals (Japan) Company Information
  - 13.6.2 JX Advanced Metals (Japan) Thin-film Electrode Product Portfolios and Specifications
  - 13.6.3 JX Advanced Metals (Japan) Thin-film Electrode Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.6.4 JX Advanced Metals (Japan) Main Business Overview
  - 13.6.5 JX Advanced Metals (Japan) Latest Developments
- 13.7 Sumitomo (Japan)
  - 13.7.1 Sumitomo (Japan) Company Information
  - 13.7.2 Sumitomo (Japan) Thin-film Electrode Product Portfolios and Specifications
  - 13.7.3 Sumitomo (Japan) Thin-film Electrode Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.7.4 Sumitomo (Japan) Main Business Overview
  - 13.7.5 Sumitomo (Japan) Latest Developments
- 13.8 Mitsui (Japan)
  - 13.8.1 Mitsui (Japan) Company Information
  - 13.8.2 Mitsui (Japan) Thin-film Electrode Product Portfolios and Specifications
  - 13.8.3 Mitsui (Japan) Thin-film Electrode Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.8.4 Mitsui (Japan) Main Business Overview
  - 13.8.5 Mitsui (Japan) Latest Developments
- 13.9 TANAKA (Japan)
  - 13.9.1 TANAKA (Japan) Company Information
  - 13.9.2 TANAKA (Japan) Thin-film Electrode Product Portfolios and Specifications
  - 13.9.3 TANAKA (Japan) Thin-film Electrode Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 TANAKA (Japan) Main Business Overview

13.9.5 TANAKA (Japan) Latest Developments

13.10 Linde (Ireland)

13.10.1 Linde (Ireland) Company Information

13.10.2 Linde (Ireland) Thin-film Electrode Product Portfolios and Specifications

13.10.3 Linde (Ireland) Thin-film Electrode Sales, Revenue, Price and Gross Margin  
(2021-2026)

13.10.4 Linde (Ireland) Main Business Overview

13.10.5 Linde (Ireland) Latest Developments

## **14 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

- Table 1. Thin-film Electrode Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. Thin-film Electrode Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of Metal-based Film
- Table 4. Major Players of Carbon-based Film
- Table 5. Major Players of Polymer-based Film
- Table 6. Global Thin-film Electrode Sales by Type (2021-2026) & (K Sqm)
- Table 7. Global Thin-film Electrode Sales Market Share by Type (2021-2026)
- Table 8. Global Thin-film Electrode Revenue by Type (2021-2026) & (\$ million)
- Table 9. Global Thin-film Electrode Revenue Market Share by Type (2021-2026)
- Table 10. Global Thin-film Electrode Sale Price by Type (2021-2026) & (US\$/Sq m)
- Table 11. Major Players of Physical Vapor Deposition (PVD)
- Table 12. Major Players of Chemical Vapor Deposition (CVD)
- Table 13. Major Players of Electrochemical Deposition (ECD)
- Table 14. Global Thin-film Electrode Sales by Deposition (2021-2026) & (K Sqm)
- Table 15. Global Thin-film Electrode Sales Market Share by Deposition (2021-2026)
- Table 16. Global Thin-film Electrode Revenue by Deposition (2021-2026) & (\$ million)
- Table 17. Global Thin-film Electrode Revenue Market Share by Deposition (2021-2026)
- Table 18. Global Thin-film Electrode Sale Price by Deposition (2021-2026) & (US\$/Sq m)
- Table 19. Global Thin-film Electrode Sale by Application (2021-2026) & (K Sqm)
- Table 20. Global Thin-film Electrode Sale Market Share by Application (2021-2026)
- Table 21. Global Thin-film Electrode Revenue by Application (2021-2026) & (\$ million)
- Table 22. Global Thin-film Electrode Revenue Market Share by Application (2021-2026)
- Table 23. Global Thin-film Electrode Sale Price by Application (2021-2026) & (US\$/Sq m)
- Table 24. Global Thin-film Electrode Sales by Company (2021-2026) & (K Sqm)
- Table 25. Global Thin-film Electrode Sales Market Share by Company (2021-2026)
- Table 26. Global Thin-film Electrode Revenue by Company (2021-2026) & (\$ millions)
- Table 27. Global Thin-film Electrode Revenue Market Share by Company (2021-2026)
- Table 28. Global Thin-film Electrode Sale Price by Company (2021-2026) & (US\$/Sq m)
- Table 29. Key Manufacturers Thin-film Electrode Producing Area Distribution and Sales Area
- Table 30. Players Thin-film Electrode Products Offered

- Table 31. Thin-film Electrode Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- Table 32. New Products and Potential Entrants
- Table 33. Market M&A Activity & Strategy
- Table 34. Global Thin-film Electrode Sales by Geographic Region (2021-2026) & (K Sqm)
- Table 35. Global Thin-film Electrode Sales Market Share Geographic Region (2021-2026)
- Table 36. Global Thin-film Electrode Revenue by Geographic Region (2021-2026) & (\$ millions)
- Table 37. Global Thin-film Electrode Revenue Market Share by Geographic Region (2021-2026)
- Table 38. Global Thin-film Electrode Sales by Country/Region (2021-2026) & (K Sqm)
- Table 39. Global Thin-film Electrode Sales Market Share by Country/Region (2021-2026)
- Table 40. Global Thin-film Electrode Revenue by Country/Region (2021-2026) & (\$ millions)
- Table 41. Global Thin-film Electrode Revenue Market Share by Country/Region (2021-2026)
- Table 42. Americas Thin-film Electrode Sales by Country (2021-2026) & (K Sqm)
- Table 43. Americas Thin-film Electrode Sales Market Share by Country (2021-2026)
- Table 44. Americas Thin-film Electrode Revenue by Country (2021-2026) & (\$ millions)
- Table 45. Americas Thin-film Electrode Sales by Type (2021-2026) & (K Sqm)
- Table 46. Americas Thin-film Electrode Sales by Application (2021-2026) & (K Sqm)
- Table 47. APAC Thin-film Electrode Sales by Region (2021-2026) & (K Sqm)
- Table 48. APAC Thin-film Electrode Sales Market Share by Region (2021-2026)
- Table 49. APAC Thin-film Electrode Revenue by Region (2021-2026) & (\$ millions)
- Table 50. APAC Thin-film Electrode Sales by Type (2021-2026) & (K Sqm)
- Table 51. APAC Thin-film Electrode Sales by Application (2021-2026) & (K Sqm)
- Table 52. Europe Thin-film Electrode Sales by Country (2021-2026) & (K Sqm)
- Table 53. Europe Thin-film Electrode Revenue by Country (2021-2026) & (\$ millions)
- Table 54. Europe Thin-film Electrode Sales by Type (2021-2026) & (K Sqm)
- Table 55. Europe Thin-film Electrode Sales by Application (2021-2026) & (K Sqm)
- Table 56. Middle East & Africa Thin-film Electrode Sales by Country (2021-2026) & (K Sqm)
- Table 57. Middle East & Africa Thin-film Electrode Revenue Market Share by Country (2021-2026)
- Table 58. Middle East & Africa Thin-film Electrode Sales by Type (2021-2026) & (K Sqm)
- Table 59. Middle East & Africa Thin-film Electrode Sales by Application (2021-2026) &

(K Sqm)

Table 60. Key Market Drivers & Growth Opportunities of Thin-film Electrode

Table 61. Key Market Challenges & Risks of Thin-film Electrode

Table 62. Key Industry Trends of Thin-film Electrode

Table 63. Thin-film Electrode Raw Material

Table 64. Key Suppliers of Raw Materials

Table 65. Thin-film Electrode Distributors List

Table 66. Thin-film Electrode Customer List

Table 67. Global Thin-film Electrode Sales Forecast by Region (2027-2032) & (K Sqm)

Table 68. Global Thin-film Electrode Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 69. Americas Thin-film Electrode Sales Forecast by Country (2027-2032) & (K Sqm)

Table 70. Americas Thin-film Electrode Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 71. APAC Thin-film Electrode Sales Forecast by Region (2027-2032) & (K Sqm)

Table 72. APAC Thin-film Electrode Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 73. Europe Thin-film Electrode Sales Forecast by Country (2027-2032) & (K Sqm)

Table 74. Europe Thin-film Electrode Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 75. Middle East & Africa Thin-film Electrode Sales Forecast by Country (2027-2032) & (K Sqm)

Table 76. Middle East & Africa Thin-film Electrode Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 77. Global Thin-film Electrode Sales Forecast by Type (2027-2032) & (K Sqm)

Table 78. Global Thin-film Electrode Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 79. Global Thin-film Electrode Sales Forecast by Application (2027-2032) & (K Sqm)

Table 80. Global Thin-film Electrode Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 81. Umicore (Belgium) Basic Information, Thin-film Electrode Manufacturing Base, Sales Area and Its Competitors

Table 82. Umicore (Belgium) Thin-film Electrode Product Portfolios and Specifications

Table 83. Umicore (Belgium) Thin-film Electrode Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 84. Umicore (Belgium) Main Business

Table 85. Umicore (Belgium) Latest Developments

- Table 86. Materion (USA) Basic Information, Thin-film Electrode Manufacturing Base, Sales Area and Its Competitors
- Table 87. Materion (USA) Thin-film Electrode Product Portfolios and Specifications
- Table 88. Materion (USA) Thin-film Electrode Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)
- Table 89. Materion (USA) Main Business
- Table 90. Materion (USA) Latest Developments
- Table 91. Plansee Group (Austria) Basic Information, Thin-film Electrode Manufacturing Base, Sales Area and Its Competitors
- Table 92. Plansee Group (Austria) Thin-film Electrode Product Portfolios and Specifications
- Table 93. Plansee Group (Austria) Thin-film Electrode Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)
- Table 94. Plansee Group (Austria) Main Business
- Table 95. Plansee Group (Austria) Latest Developments
- Table 96. Heraeus (Germany) Basic Information, Thin-film Electrode Manufacturing Base, Sales Area and Its Competitors
- Table 97. Heraeus (Germany) Thin-film Electrode Product Portfolios and Specifications
- Table 98. Heraeus (Germany) Thin-film Electrode Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)
- Table 99. Heraeus (Germany) Main Business
- Table 100. Heraeus (Germany) Latest Developments
- Table 101. Proterial (Japan) Basic Information, Thin-film Electrode Manufacturing Base, Sales Area and Its Competitors
- Table 102. Proterial (Japan) Thin-film Electrode Product Portfolios and Specifications
- Table 103. Proterial (Japan) Thin-film Electrode Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)
- Table 104. Proterial (Japan) Main Business
- Table 105. Proterial (Japan) Latest Developments
- Table 106. JX Advanced Metals (Japan) Basic Information, Thin-film Electrode Manufacturing Base, Sales Area and Its Competitors
- Table 107. JX Advanced Metals (Japan) Thin-film Electrode Product Portfolios and Specifications
- Table 108. JX Advanced Metals (Japan) Thin-film Electrode Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)
- Table 109. JX Advanced Metals (Japan) Main Business
- Table 110. JX Advanced Metals (Japan) Latest Developments
- Table 111. Sumitomo (Japan) Basic Information, Thin-film Electrode Manufacturing Base, Sales Area and Its Competitors

- Table 112. Sumitomo (Japan) Thin-film Electrode Product Portfolios and Specifications
- Table 113. Sumitomo (Japan) Thin-film Electrode Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)
- Table 114. Sumitomo (Japan) Main Business
- Table 115. Sumitomo (Japan) Latest Developments
- Table 116. Mitsui (Japan) Basic Information, Thin-film Electrode Manufacturing Base, Sales Area and Its Competitors
- Table 117. Mitsui (Japan) Thin-film Electrode Product Portfolios and Specifications
- Table 118. Mitsui (Japan) Thin-film Electrode Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)
- Table 119. Mitsui (Japan) Main Business
- Table 120. Mitsui (Japan) Latest Developments
- Table 121. TANAKA (Japan) Basic Information, Thin-film Electrode Manufacturing Base, Sales Area and Its Competitors
- Table 122. TANAKA (Japan) Thin-film Electrode Product Portfolios and Specifications
- Table 123. TANAKA (Japan) Thin-film Electrode Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)
- Table 124. TANAKA (Japan) Main Business
- Table 125. TANAKA (Japan) Latest Developments
- Table 126. Linde (Ireland) Basic Information, Thin-film Electrode Manufacturing Base, Sales Area and Its Competitors
- Table 127. Linde (Ireland) Thin-film Electrode Product Portfolios and Specifications
- Table 128. Linde (Ireland) Thin-film Electrode Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)
- Table 129. Linde (Ireland) Main Business
- Table 130. Linde (Ireland) Latest Developments

## List Of Figures

### LIST OF FIGURES

- Figure 1. Picture of Thin-film Electrode
- Figure 2. Thin-film Electrode Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Thin-film Electrode Sales Growth Rate 2021-2032 (K Sqm)
- Figure 7. Global Thin-film Electrode Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Thin-film Electrode Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Thin-film Electrode Sales Market Share by Country/Region (2025)
- Figure 10. Thin-film Electrode Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Metal-based Film
- Figure 12. Product Picture of Carbon-based Film
- Figure 13. Product Picture of Polymer-based Film
- Figure 14. Global Thin-film Electrode Sales Market Share by Type in 2026
- Figure 15. Global Thin-film Electrode Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of Physical Vapor Deposition (PVD)
- Figure 17. Product Picture of Chemical Vapor Deposition (CVD)
- Figure 18. Product Picture of Electrochemical Deposition (ECD)
- Figure 19. Global Thin-film Electrode Sales Market Share by Deposition in 2026
- Figure 20. Global Thin-film Electrode Revenue Market Share by Deposition (2021-2026)
- Figure 21. Thin-film Electrode Consumed in Energy Storage
- Figure 22. Global Thin-film Electrode Market: Energy Storage (2021-2026) & (K Sqm)
- Figure 23. Thin-film Electrode Consumed in Semiconductor
- Figure 24. Global Thin-film Electrode Market: Semiconductor (2021-2026) & (K Sqm)
- Figure 25. Thin-film Electrode Consumed in Photovoltaic
- Figure 26. Global Thin-film Electrode Market: Photovoltaic (2021-2026) & (K Sqm)
- Figure 27. Thin-film Electrode Consumed in Others
- Figure 28. Global Thin-film Electrode Market: Others (2021-2026) & (K Sqm)
- Figure 29. Global Thin-film Electrode Sale Market Share by Application (2025)
- Figure 30. Global Thin-film Electrode Revenue Market Share by Application in 2025
- Figure 31. Thin-film Electrode Sales by Company in 2025 (K Sqm)
- Figure 32. Global Thin-film Electrode Sales Market Share by Company in 2025
- Figure 33. Thin-film Electrode Revenue by Company in 2025 (\$ millions)

Figure 34. Global Thin-film Electrode Revenue Market Share by Company in 2025

Figure 35. Global Thin-film Electrode Sales Market Share by Geographic Region (2021-2026)

Figure 36. Global Thin-film Electrode Revenue Market Share by Geographic Region in 2025

Figure 37. Americas Thin-film Electrode Sales 2021-2026 (K Sqm)

Figure 38. Americas Thin-film Electrode Revenue 2021-2026 (\$ millions)

Figure 39. APAC Thin-film Electrode Sales 2021-2026 (K Sqm)

Figure 40. APAC Thin-film Electrode Revenue 2021-2026 (\$ millions)

Figure 41. Europe Thin-film Electrode Sales 2021-2026 (K Sqm)

Figure 42. Europe Thin-film Electrode Revenue 2021-2026 (\$ millions)

Figure 43. Middle East & Africa Thin-film Electrode Sales 2021-2026 (K Sqm)

Figure 44. Middle East & Africa Thin-film Electrode Revenue 2021-2026 (\$ millions)

Figure 45. Americas Thin-film Electrode Sales Market Share by Country in 2025

Figure 46. Americas Thin-film Electrode Revenue Market Share by Country (2021-2026)

Figure 47. Americas Thin-film Electrode Sales Market Share by Type (2021-2026)

Figure 48. Americas Thin-film Electrode Sales Market Share by Application (2021-2026)

Figure 49. United States Thin-film Electrode Revenue Growth 2021-2026 (\$ millions)

Figure 50. Canada Thin-film Electrode Revenue Growth 2021-2026 (\$ millions)

Figure 51. Mexico Thin-film Electrode Revenue Growth 2021-2026 (\$ millions)

Figure 52. Brazil Thin-film Electrode Revenue Growth 2021-2026 (\$ millions)

Figure 53. APAC Thin-film Electrode Sales Market Share by Region in 2025

Figure 54. APAC Thin-film Electrode Revenue Market Share by Region (2021-2026)

Figure 55. APAC Thin-film Electrode Sales Market Share by Type (2021-2026)

Figure 56. APAC Thin-film Electrode Sales Market Share by Application (2021-2026)

Figure 57. China Thin-film Electrode Revenue Growth 2021-2026 (\$ millions)

Figure 58. Japan Thin-film Electrode Revenue Growth 2021-2026 (\$ millions)

Figure 59. South Korea Thin-film Electrode Revenue Growth 2021-2026 (\$ millions)

Figure 60. Southeast Asia Thin-film Electrode Revenue Growth 2021-2026 (\$ millions)

Figure 61. India Thin-film Electrode Revenue Growth 2021-2026 (\$ millions)

Figure 62. Australia Thin-film Electrode Revenue Growth 2021-2026 (\$ millions)

Figure 63. China Taiwan Thin-film Electrode Revenue Growth 2021-2026 (\$ millions)

Figure 64. Europe Thin-film Electrode Sales Market Share by Country in 2025

Figure 65. Europe Thin-film Electrode Revenue Market Share by Country (2021-2026)

Figure 66. Europe Thin-film Electrode Sales Market Share by Type (2021-2026)

Figure 67. Europe Thin-film Electrode Sales Market Share by Application (2021-2026)

Figure 68. Germany Thin-film Electrode Revenue Growth 2021-2026 (\$ millions)

Figure 69. France Thin-film Electrode Revenue Growth 2021-2026 (\$ millions)

Figure 70. UK Thin-film Electrode Revenue Growth 2021-2026 (\$ millions)

- Figure 71. Italy Thin-film Electrode Revenue Growth 2021-2026 (\$ millions)
- Figure 72. Russia Thin-film Electrode Revenue Growth 2021-2026 (\$ millions)
- Figure 73. Middle East & Africa Thin-film Electrode Sales Market Share by Country (2021-2026)
- Figure 74. Middle East & Africa Thin-film Electrode Sales Market Share by Type (2021-2026)
- Figure 75. Middle East & Africa Thin-film Electrode Sales Market Share by Application (2021-2026)
- Figure 76. Egypt Thin-film Electrode Revenue Growth 2021-2026 (\$ millions)
- Figure 77. South Africa Thin-film Electrode Revenue Growth 2021-2026 (\$ millions)
- Figure 78. Israel Thin-film Electrode Revenue Growth 2021-2026 (\$ millions)
- Figure 79. Turkey Thin-film Electrode Revenue Growth 2021-2026 (\$ millions)
- Figure 80. GCC Countries Thin-film Electrode Revenue Growth 2021-2026 (\$ millions)
- Figure 81. Manufacturing Cost Structure Analysis of Thin-film Electrode in 2026
- Figure 82. Manufacturing Process Analysis of Thin-film Electrode
- Figure 83. Industry Chain Structure of Thin-film Electrode
- Figure 84. Channels of Distribution
- Figure 85. Global Thin-film Electrode Sales Market Forecast by Region (2027-2032)
- Figure 86. Global Thin-film Electrode Revenue Market Share Forecast by Region (2027-2032)
- Figure 87. Global Thin-film Electrode Sales Market Share Forecast by Type (2027-2032)
- Figure 88. Global Thin-film Electrode Revenue Market Share Forecast by Type (2027-2032)
- Figure 89. Global Thin-film Electrode Sales Market Share Forecast by Application (2027-2032)
- Figure 90. Global Thin-film Electrode Revenue Market Share Forecast by Application (2027-2032)

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