

Global 3D Porous Copper Foil Market Growth 2026-2032

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Abstracts

The global 3D Porous Copper Foil market size is predicted to grow from US\$ 157 million in 2025 to US\$ 2182 million in 2032; it is expected to grow at a CAGR of 46.7% from 2026 to 2032.

3D Porous Copper Foil refers to an advanced current collector material featuring a three-dimensional interconnected porous structure, specifically engineered for lithium battery systems to enhance ion transport pathways and electrode-electrolyte interaction. By constructing a spatial conductive network, it significantly improves electrolyte wettability, reduces interfacial resistance, and enhances mechanical flexibility, thereby supporting higher energy density, improved rate capability, and extended cycle life. This structure is particularly suitable for next-generation battery technologies such as solid-state batteries and high-performance supercapacitors. In 2025, the industry's capacity utilization rate was about 45%, while the average gross margin reached approximately 30%, indicating that the sector remains in a scaling phase with ongoing cost optimization and technology refinement. Production in 2025 totaled 5,614 ton, with an average price of 28,500 USD/ton. The upstream primarily consists of high-purity cathode copper and specialized pore-forming additives, including porogens and surfactants, with representative suppliers such as Jiangxi Copper, Tongling Nonferrous Metals, Freeport-McMoRan, and Glencore, ensuring material purity and process stability. The midstream focuses on precision electrochemical deposition, three-dimensional pore architecture regulation, and surface treatment processes to achieve uniform porosity and structural integrity. The downstream is mainly driven by power batteries and consumer batteries, with key customers including CATL, BYD, LG Energy Solution, Panasonic, and Samsung SDI.

United States market for 3D Porous Copper Foil 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 3D Porous Copper Foil 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 3D Porous Copper Foil is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key 3D Porous Copper Foil players cover Nuode New Materials, Jiayuan Technology, Defu Technology, Zhongyi Technology, Tongguan Copper Foil, 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 "3D Porous Copper Foil Industry Forecast" looks at past sales and reviews total world 3D Porous Copper Foil sales in 2025, providing a comprehensive analysis by region and market sector of projected 3D Porous Copper Foil sales for 2026 through 2032. With 3D Porous Copper Foil sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 3D Porous Copper Foil industry.

This Insight Report provides a comprehensive analysis of the global 3D Porous Copper Foil 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 3D Porous Copper Foil portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 3D Porous Copper Foil market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 3D Porous Copper Foil 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 3D Porous Copper Foil.

This report presents a comprehensive overview, market shares, and growth opportunities of 3D Porous Copper Foil market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

<6µm

6-12µm

Segmentation by Porosity Rate:

30%<Porosity Rate<50%

Specific Capacity<50%

Others

Segmentation by Surface Treatment:

Bare Copper Microporous Copper Foil

Nickel-plated Microporous Copper Foil

Others

Segmentation by Application:

Power Battery

Consumer Battery

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.

Nuode New Materials

Jiayuan Technology

Defu Technology

Zhongyi Technology

Tongguan Copper Foil

Mitsui Kinzoku

Furukawa Electric

SK Nexilis

Circuit Foil

Key Questions Addressed in this Report

What is the 10-year outlook for the global 3D Porous Copper Foil market?

What factors are driving 3D Porous Copper Foil market growth, globally and by region?

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

How do 3D Porous Copper Foil market opportunities vary by end market size?

How does 3D Porous Copper Foil 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 3D Porous Copper Foil Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for 3D Porous Copper Foil by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for 3D Porous Copper Foil by Country/Region, 2021, 2025 & 2032
- 2.2 3D Porous Copper Foil Segment by Type
 - 2.2.1 6-12µm
 - 2.2.2 12-18µm
 - 2.2.3 3D Porous Copper Foil Sales by Type
 - 2.2.3.1 Global 3D Porous Copper Foil Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global 3D Porous Copper Foil Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global 3D Porous Copper Foil Sale Price by Type (2021-2026)
- 2.3 3D Porous Copper Foil Segment by Porosity Rate
 - 2.3.1 30% Porosity Rate-50%
 - 2.3.2 Specific Capacity-50%
 - 2.3.3 Others
 - 2.3.4 3D Porous Copper Foil Sales by Porosity Rate
 - 2.3.4.1 Global 3D Porous Copper Foil Sales Market Share by Porosity Rate (2021-2026)
 - 2.3.4.2 Global 3D Porous Copper Foil Revenue and Market Share by Porosity Rate (2021-2026)
 - 2.3.4.3 Global 3D Porous Copper Foil Sale Price by Porosity Rate (2021-2026)

2.4 3D Porous Copper Foil Segment by Surface Treatment

2.4.1 Bare Copper Microporous Copper Foil

2.4.2 Nickel-plated Microporous Copper Foil

2.4.3 Others

2.4.4 3D Porous Copper Foil Sales by Surface Treatment

2.4.4.1 Global 3D Porous Copper Foil Sales Market Share by Surface Treatment (2021-2026)

2.4.4.2 Global 3D Porous Copper Foil Revenue and Market Share by Surface Treatment (2021-2026)

2.4.4.3 Global 3D Porous Copper Foil Sale Price by Surface Treatment (2021-2026)

2.5 3D Porous Copper Foil Segment by Application

2.5.1 Power Battery

2.5.2 Consumer Battery

2.5.3 Others

2.5.4 3D Porous Copper Foil Sales by Application

2.5.4.1 Global 3D Porous Copper Foil Sale Market Share by Application (2021-2026)

2.5.4.2 Global 3D Porous Copper Foil Revenue and Market Share by Application (2021-2026)

2.5.4.3 Global 3D Porous Copper Foil Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global 3D Porous Copper Foil Breakdown Data by Company

3.1.1 Global 3D Porous Copper Foil Annual Sales by Company (2021-2026)

3.1.2 Global 3D Porous Copper Foil Sales Market Share by Company (2021-2026)

3.2 Global 3D Porous Copper Foil Annual Revenue by Company (2021-2026)

3.2.1 Global 3D Porous Copper Foil Revenue by Company (2021-2026)

3.2.2 Global 3D Porous Copper Foil Revenue Market Share by Company (2021-2026)

3.3 Global 3D Porous Copper Foil Sale Price by Company

3.4 Key Manufacturers 3D Porous Copper Foil Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers 3D Porous Copper Foil Product Location Distribution

3.4.2 Players 3D Porous Copper Foil 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 3D POROUS COPPER FOIL BY GEOGRAPHIC REGION

4.1 World Historic 3D Porous Copper Foil Market Size by Geographic Region (2021-2026)

4.1.1 Global 3D Porous Copper Foil Annual Sales by Geographic Region (2021-2026)

4.1.2 Global 3D Porous Copper Foil Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic 3D Porous Copper Foil Market Size by Country/Region (2021-2026)

4.2.1 Global 3D Porous Copper Foil Annual Sales by Country/Region (2021-2026)

4.2.2 Global 3D Porous Copper Foil Annual Revenue by Country/Region (2021-2026)

4.3 Americas 3D Porous Copper Foil Sales Growth

4.4 APAC 3D Porous Copper Foil Sales Growth

4.5 Europe 3D Porous Copper Foil Sales Growth

4.6 Middle East & Africa 3D Porous Copper Foil Sales Growth

5 AMERICAS

5.1 Americas 3D Porous Copper Foil Sales by Country

5.1.1 Americas 3D Porous Copper Foil Sales by Country (2021-2026)

5.1.2 Americas 3D Porous Copper Foil Revenue by Country (2021-2026)

5.2 Americas 3D Porous Copper Foil Sales by Type (2021-2026)

5.3 Americas 3D Porous Copper Foil Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC 3D Porous Copper Foil Sales by Region

6.1.1 APAC 3D Porous Copper Foil Sales by Region (2021-2026)

6.1.2 APAC 3D Porous Copper Foil Revenue by Region (2021-2026)

6.2 APAC 3D Porous Copper Foil Sales by Type (2021-2026)

6.3 APAC 3D Porous Copper Foil 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 3D Porous Copper Foil by Country
 - 7.1.1 Europe 3D Porous Copper Foil Sales by Country (2021-2026)
 - 7.1.2 Europe 3D Porous Copper Foil Revenue by Country (2021-2026)
- 7.2 Europe 3D Porous Copper Foil Sales by Type (2021-2026)
- 7.3 Europe 3D Porous Copper Foil 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 3D Porous Copper Foil by Country
 - 8.1.1 Middle East & Africa 3D Porous Copper Foil Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa 3D Porous Copper Foil Revenue by Country (2021-2026)
- 8.2 Middle East & Africa 3D Porous Copper Foil Sales by Type (2021-2026)
- 8.3 Middle East & Africa 3D Porous Copper Foil 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 3D Porous Copper Foil

10.3 Manufacturing Process Analysis of 3D Porous Copper Foil

10.4 Industry Chain Structure of 3D Porous Copper Foil

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 3D Porous Copper Foil Distributors

11.3 3D Porous Copper Foil Customer

12 WORLD FORECAST REVIEW FOR 3D POROUS COPPER FOIL BY GEOGRAPHIC REGION

12.1 Global 3D Porous Copper Foil Market Size Forecast by Region

12.1.1 Global 3D Porous Copper Foil Forecast by Region (2027-2032)

12.1.2 Global 3D Porous Copper Foil 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 3D Porous Copper Foil Forecast by Type (2027-2032)

12.7 Global 3D Porous Copper Foil Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Nuode New Materials

13.1.1 Nuode New Materials Company Information

13.1.2 Nuode New Materials 3D Porous Copper Foil Product Portfolios and Specifications

13.1.3 Nuode New Materials 3D Porous Copper Foil Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Nuode New Materials Main Business Overview

13.1.5 Nuode New Materials Latest Developments

13.2 Jiayuan Technology

13.2.1 Jiayuan Technology Company Information

13.2.2 Jiayuan Technology 3D Porous Copper Foil Product Portfolios and

Specifications

13.2.3 Jiayuan Technology 3D Porous Copper Foil Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Jiayuan Technology Main Business Overview

13.2.5 Jiayuan Technology Latest Developments

13.3 Defu Technology

13.3.1 Defu Technology Company Information

13.3.2 Defu Technology 3D Porous Copper Foil Product Portfolios and Specifications

13.3.3 Defu Technology 3D Porous Copper Foil Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Defu Technology Main Business Overview

13.3.5 Defu Technology Latest Developments

13.4 Zhongyi Technology

13.4.1 Zhongyi Technology Company Information

13.4.2 Zhongyi Technology 3D Porous Copper Foil Product Portfolios and Specifications

13.4.3 Zhongyi Technology 3D Porous Copper Foil Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Zhongyi Technology Main Business Overview

13.4.5 Zhongyi Technology Latest Developments

13.5 Tongguan Copper Foil

13.5.1 Tongguan Copper Foil Company Information

13.5.2 Tongguan Copper Foil 3D Porous Copper Foil Product Portfolios and Specifications

13.5.3 Tongguan Copper Foil 3D Porous Copper Foil Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Tongguan Copper Foil Main Business Overview

13.5.5 Tongguan Copper Foil Latest Developments

13.6 Mitsui Kinzoku

13.6.1 Mitsui Kinzoku Company Information

13.6.2 Mitsui Kinzoku 3D Porous Copper Foil Product Portfolios and Specifications

13.6.3 Mitsui Kinzoku 3D Porous Copper Foil Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Mitsui Kinzoku Main Business Overview

13.6.5 Mitsui Kinzoku Latest Developments

13.7 Furukawa Electric

13.7.1 Furukawa Electric Company Information

13.7.2 Furukawa Electric 3D Porous Copper Foil Product Portfolios and Specifications

13.7.3 Furukawa Electric 3D Porous Copper Foil Sales, Revenue, Price and Gross

Margin (2021-2026)

13.7.4 Furukawa Electric Main Business Overview

13.7.5 Furukawa Electric Latest Developments

13.8 SK Nexilis

13.8.1 SK Nexilis Company Information

13.8.2 SK Nexilis 3D Porous Copper Foil Product Portfolios and Specifications

13.8.3 SK Nexilis 3D Porous Copper Foil Sales, Revenue, Price and Gross Margin

(2021-2026)

13.8.4 SK Nexilis Main Business Overview

13.8.5 SK Nexilis Latest Developments

13.9 Circuit Foil

13.9.1 Circuit Foil Company Information

13.9.2 Circuit Foil 3D Porous Copper Foil Product Portfolios and Specifications

13.9.3 Circuit Foil 3D Porous Copper Foil Sales, Revenue, Price and Gross Margin

(2021-2026)

13.9.4 Circuit Foil Main Business Overview

13.9.5 Circuit Foil Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. 3D Porous Copper Foil Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. 3D Porous Copper Foil Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of 6-12m

Table 4. Major Players of 6-12m

Table 5. Global 3D Porous Copper Foil Sales by Type (2021-2026) & (Tons)

Table 6. Global 3D Porous Copper Foil Sales Market Share by Type (2021-2026)

Table 7. Global 3D Porous Copper Foil Revenue by Type (2021-2026) & (\$ million)

Table 8. Global 3D Porous Copper Foil Revenue Market Share by Type (2021-2026)

Table 9. Global 3D Porous Copper Foil Sale Price by Type (2021-2026) & (US\$/Ton)

Table 10. Major Players of 30%-50% Porosity Rate

Table 11. Major Players of Specific Capacity 50%

Table 12. Major Players of Others

Table 13. Global 3D Porous Copper Foil Sales by Porosity Rate (2021-2026) & (Tons)

Table 14. Global 3D Porous Copper Foil Sales Market Share by Porosity Rate (2021-2026)

Table 15. Global 3D Porous Copper Foil Revenue by Porosity Rate (2021-2026) & (\$ million)

Table 16. Global 3D Porous Copper Foil Revenue Market Share by Porosity Rate (2021-2026)

Table 17. Global 3D Porous Copper Foil Sale Price by Porosity Rate (2021-2026) & (US\$/Ton)

Table 18. Major Players of Bare Copper Microporous Copper Foil

Table 19. Major Players of Nickel-plated Microporous Copper Foil

Table 20. Major Players of Others

Table 21. Global 3D Porous Copper Foil Sales by Surface Treatment (2021-2026) & (Tons)

Table 22. Global 3D Porous Copper Foil Sales Market Share by Surface Treatment (2021-2026)

Table 23. Global 3D Porous Copper Foil Revenue by Surface Treatment (2021-2026) & (\$ million)

Table 24. Global 3D Porous Copper Foil Revenue Market Share by Surface Treatment (2021-2026)

Table 25. Global 3D Porous Copper Foil Sale Price by Surface Treatment (2021-2026)

& (US\$/Ton)

Table 26. Global 3D Porous Copper Foil Sale by Application (2021-2026) & (Tons)

Table 27. Global 3D Porous Copper Foil Sale Market Share by Application (2021-2026)

Table 28. Global 3D Porous Copper Foil Revenue by Application (2021-2026) & (\$ million)

Table 29. Global 3D Porous Copper Foil Revenue Market Share by Application (2021-2026)

Table 30. Global 3D Porous Copper Foil Sale Price by Application (2021-2026) & (US\$/Ton)

Table 31. Global 3D Porous Copper Foil Sales by Company (2021-2026) & (Tons)

Table 32. Global 3D Porous Copper Foil Sales Market Share by Company (2021-2026)

Table 33. Global 3D Porous Copper Foil Revenue by Company (2021-2026) & (\$ millions)

Table 34. Global 3D Porous Copper Foil Revenue Market Share by Company (2021-2026)

Table 35. Global 3D Porous Copper Foil Sale Price by Company (2021-2026) & (US\$/Ton)

Table 36. Key Manufacturers 3D Porous Copper Foil Producing Area Distribution and Sales Area

Table 37. Players 3D Porous Copper Foil Products Offered

Table 38. 3D Porous Copper Foil Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 39. New Products and Potential Entrants

Table 40. Market M&A Activity & Strategy

Table 41. Global 3D Porous Copper Foil Sales by Geographic Region (2021-2026) & (Tons)

Table 42. Global 3D Porous Copper Foil Sales Market Share Geographic Region (2021-2026)

Table 43. Global 3D Porous Copper Foil Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 44. Global 3D Porous Copper Foil Revenue Market Share by Geographic Region (2021-2026)

Table 45. Global 3D Porous Copper Foil Sales by Country/Region (2021-2026) & (Tons)

Table 46. Global 3D Porous Copper Foil Sales Market Share by Country/Region (2021-2026)

Table 47. Global 3D Porous Copper Foil Revenue by Country/Region (2021-2026) & (\$ millions)

Table 48. Global 3D Porous Copper Foil Revenue Market Share by Country/Region (2021-2026)

Table 49. Americas 3D Porous Copper Foil Sales by Country (2021-2026) & (Tons)
Table 50. Americas 3D Porous Copper Foil Sales Market Share by Country (2021-2026)
Table 51. Americas 3D Porous Copper Foil Revenue by Country (2021-2026) & (\$ millions)
Table 52. Americas 3D Porous Copper Foil Sales by Type (2021-2026) & (Tons)
Table 53. Americas 3D Porous Copper Foil Sales by Application (2021-2026) & (Tons)
Table 54. APAC 3D Porous Copper Foil Sales by Region (2021-2026) & (Tons)
Table 55. APAC 3D Porous Copper Foil Sales Market Share by Region (2021-2026)
Table 56. APAC 3D Porous Copper Foil Revenue by Region (2021-2026) & (\$ millions)
Table 57. APAC 3D Porous Copper Foil Sales by Type (2021-2026) & (Tons)
Table 58. APAC 3D Porous Copper Foil Sales by Application (2021-2026) & (Tons)
Table 59. Europe 3D Porous Copper Foil Sales by Country (2021-2026) & (Tons)
Table 60. Europe 3D Porous Copper Foil Revenue by Country (2021-2026) & (\$ millions)
Table 61. Europe 3D Porous Copper Foil Sales by Type (2021-2026) & (Tons)
Table 62. Europe 3D Porous Copper Foil Sales by Application (2021-2026) & (Tons)
Table 63. Middle East & Africa 3D Porous Copper Foil Sales by Country (2021-2026) & (Tons)
Table 64. Middle East & Africa 3D Porous Copper Foil Revenue Market Share by Country (2021-2026)
Table 65. Middle East & Africa 3D Porous Copper Foil Sales by Type (2021-2026) & (Tons)
Table 66. Middle East & Africa 3D Porous Copper Foil Sales by Application (2021-2026) & (Tons)
Table 67. Key Market Drivers & Growth Opportunities of 3D Porous Copper Foil
Table 68. Key Market Challenges & Risks of 3D Porous Copper Foil
Table 69. Key Industry Trends of 3D Porous Copper Foil
Table 70. 3D Porous Copper Foil Raw Material
Table 71. Key Suppliers of Raw Materials
Table 72. 3D Porous Copper Foil Distributors List
Table 73. 3D Porous Copper Foil Customer List
Table 74. Global 3D Porous Copper Foil Sales Forecast by Region (2027-2032) & (Tons)
Table 75. Global 3D Porous Copper Foil Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 76. Americas 3D Porous Copper Foil Sales Forecast by Country (2027-2032) & (Tons)
Table 77. Americas 3D Porous Copper Foil Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 78. APAC 3D Porous Copper Foil Sales Forecast by Region (2027-2032) & (Tons)

Table 79. APAC 3D Porous Copper Foil Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 80. Europe 3D Porous Copper Foil Sales Forecast by Country (2027-2032) & (Tons)

Table 81. Europe 3D Porous Copper Foil Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 82. Middle East & Africa 3D Porous Copper Foil Sales Forecast by Country (2027-2032) & (Tons)

Table 83. Middle East & Africa 3D Porous Copper Foil Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 84. Global 3D Porous Copper Foil Sales Forecast by Type (2027-2032) & (Tons)

Table 85. Global 3D Porous Copper Foil Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 86. Global 3D Porous Copper Foil Sales Forecast by Application (2027-2032) & (Tons)

Table 87. Global 3D Porous Copper Foil Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 88. Nuode New Materials Basic Information, 3D Porous Copper Foil Manufacturing Base, Sales Area and Its Competitors

Table 89. Nuode New Materials 3D Porous Copper Foil Product Portfolios and Specifications

Table 90. Nuode New Materials 3D Porous Copper Foil Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 91. Nuode New Materials Main Business

Table 92. Nuode New Materials Latest Developments

Table 93. Jiayuan Technology Basic Information, 3D Porous Copper Foil Manufacturing Base, Sales Area and Its Competitors

Table 94. Jiayuan Technology 3D Porous Copper Foil Product Portfolios and Specifications

Table 95. Jiayuan Technology 3D Porous Copper Foil Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 96. Jiayuan Technology Main Business

Table 97. Jiayuan Technology Latest Developments

Table 98. Defu Technology Basic Information, 3D Porous Copper Foil Manufacturing Base, Sales Area and Its Competitors

Table 99. Defu Technology 3D Porous Copper Foil Product Portfolios and Specifications

Table 100. Defu Technology 3D Porous Copper Foil Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 101. Defu Technology Main Business

Table 102. Defu Technology Latest Developments

Table 103. Zhongyi Technology Basic Information, 3D Porous Copper Foil Manufacturing Base, Sales Area and Its Competitors

Table 104. Zhongyi Technology 3D Porous Copper Foil Product Portfolios and Specifications

Table 105. Zhongyi Technology 3D Porous Copper Foil Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 106. Zhongyi Technology Main Business

Table 107. Zhongyi Technology Latest Developments

Table 108. Tongguan Copper Foil Basic Information, 3D Porous Copper Foil Manufacturing Base, Sales Area and Its Competitors

Table 109. Tongguan Copper Foil 3D Porous Copper Foil Product Portfolios and Specifications

Table 110. Tongguan Copper Foil 3D Porous Copper Foil Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 111. Tongguan Copper Foil Main Business

Table 112. Tongguan Copper Foil Latest Developments

Table 113. Mitsui Kinzoku Basic Information, 3D Porous Copper Foil Manufacturing Base, Sales Area and Its Competitors

Table 114. Mitsui Kinzoku 3D Porous Copper Foil Product Portfolios and Specifications

Table 115. Mitsui Kinzoku 3D Porous Copper Foil Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 116. Mitsui Kinzoku Main Business

Table 117. Mitsui Kinzoku Latest Developments

Table 118. Furukawa Electric Basic Information, 3D Porous Copper Foil Manufacturing Base, Sales Area and Its Competitors

Table 119. Furukawa Electric 3D Porous Copper Foil Product Portfolios and Specifications

Table 120. Furukawa Electric 3D Porous Copper Foil Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 121. Furukawa Electric Main Business

Table 122. Furukawa Electric Latest Developments

Table 123. SK Nexilis Basic Information, 3D Porous Copper Foil Manufacturing Base, Sales Area and Its Competitors

Table 124. SK Nexilis 3D Porous Copper Foil Product Portfolios and Specifications

Table 125. SK Nexilis 3D Porous Copper Foil Sales (Tons), Revenue (\$ Million), Price

(US\$/Ton) and Gross Margin (2021-2026)

Table 126. SK Nexilis Main Business

Table 127. SK Nexilis Latest Developments

Table 128. Circuit Foil Basic Information, 3D Porous Copper Foil Manufacturing Base, Sales Area and Its Competitors

Table 129. Circuit Foil 3D Porous Copper Foil Product Portfolios and Specifications

Table 130. Circuit Foil 3D Porous Copper Foil Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 131. Circuit Foil Main Business

Table 132. Circuit Foil Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of 3D Porous Copper Foil
- Figure 2. 3D Porous Copper Foil Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global 3D Porous Copper Foil Sales Growth Rate 2021-2032 (Tons)
- Figure 7. Global 3D Porous Copper Foil Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. 3D Porous Copper Foil Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. 3D Porous Copper Foil Sales Market Share by Country/Region (2025)
- Figure 10. 3D Porous Copper Foil Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of 6-12µm
- Figure 12. Product Picture of 12-20µm
- Figure 13. Global 3D Porous Copper Foil Sales Market Share by Type in 2026
- Figure 14. Global 3D Porous Copper Foil Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of 30% Porosity Rate
- Figure 16. Product Picture of Specific Capacity
- Figure 17. Product Picture of Others
- Figure 18. Global 3D Porous Copper Foil Sales Market Share by Porosity Rate in 2026
- Figure 19. Global 3D Porous Copper Foil Revenue Market Share by Porosity Rate (2021-2026)
- Figure 20. Product Picture of Bare Copper Microporous Copper Foil
- Figure 21. Product Picture of Nickel-plated Microporous Copper Foil
- Figure 22. Product Picture of Others
- Figure 23. Global 3D Porous Copper Foil Sales Market Share by Surface Treatment in 2026
- Figure 24. Global 3D Porous Copper Foil Revenue Market Share by Surface Treatment (2021-2026)
- Figure 25. 3D Porous Copper Foil Consumed in Power Battery
- Figure 26. Global 3D Porous Copper Foil Market: Power Battery (2021-2026) & (Tons)
- Figure 27. 3D Porous Copper Foil Consumed in Consumer Battery
- Figure 28. Global 3D Porous Copper Foil Market: Consumer Battery (2021-2026) & (Tons)
- Figure 29. 3D Porous Copper Foil Consumed in Others

- Figure 30. Global 3D Porous Copper Foil Market: Others (2021-2026) & (Tons)
- Figure 31. Global 3D Porous Copper Foil Sale Market Share by Application (2025)
- Figure 32. Global 3D Porous Copper Foil Revenue Market Share by Application in 2025
- Figure 33. 3D Porous Copper Foil Sales by Company in 2025 (Tons)
- Figure 34. Global 3D Porous Copper Foil Sales Market Share by Company in 2025
- Figure 35. 3D Porous Copper Foil Revenue by Company in 2025 (\$ millions)
- Figure 36. Global 3D Porous Copper Foil Revenue Market Share by Company in 2025
- Figure 37. Global 3D Porous Copper Foil Sales Market Share by Geographic Region (2021-2026)
- Figure 38. Global 3D Porous Copper Foil Revenue Market Share by Geographic Region in 2025
- Figure 39. Americas 3D Porous Copper Foil Sales 2021-2026 (Tons)
- Figure 40. Americas 3D Porous Copper Foil Revenue 2021-2026 (\$ millions)
- Figure 41. APAC 3D Porous Copper Foil Sales 2021-2026 (Tons)
- Figure 42. APAC 3D Porous Copper Foil Revenue 2021-2026 (\$ millions)
- Figure 43. Europe 3D Porous Copper Foil Sales 2021-2026 (Tons)
- Figure 44. Europe 3D Porous Copper Foil Revenue 2021-2026 (\$ millions)
- Figure 45. Middle East & Africa 3D Porous Copper Foil Sales 2021-2026 (Tons)
- Figure 46. Middle East & Africa 3D Porous Copper Foil Revenue 2021-2026 (\$ millions)
- Figure 47. Americas 3D Porous Copper Foil Sales Market Share by Country in 2025
- Figure 48. Americas 3D Porous Copper Foil Revenue Market Share by Country (2021-2026)
- Figure 49. Americas 3D Porous Copper Foil Sales Market Share by Type (2021-2026)
- Figure 50. Americas 3D Porous Copper Foil Sales Market Share by Application (2021-2026)
- Figure 51. United States 3D Porous Copper Foil Revenue Growth 2021-2026 (\$ millions)
- Figure 52. Canada 3D Porous Copper Foil Revenue Growth 2021-2026 (\$ millions)
- Figure 53. Mexico 3D Porous Copper Foil Revenue Growth 2021-2026 (\$ millions)
- Figure 54. Brazil 3D Porous Copper Foil Revenue Growth 2021-2026 (\$ millions)
- Figure 55. APAC 3D Porous Copper Foil Sales Market Share by Region in 2025
- Figure 56. APAC 3D Porous Copper Foil Revenue Market Share by Region (2021-2026)
- Figure 57. APAC 3D Porous Copper Foil Sales Market Share by Type (2021-2026)
- Figure 58. APAC 3D Porous Copper Foil Sales Market Share by Application (2021-2026)
- Figure 59. China 3D Porous Copper Foil Revenue Growth 2021-2026 (\$ millions)
- Figure 60. Japan 3D Porous Copper Foil Revenue Growth 2021-2026 (\$ millions)
- Figure 61. South Korea 3D Porous Copper Foil Revenue Growth 2021-2026 (\$ millions)

Figure 62. Southeast Asia 3D Porous Copper Foil Revenue Growth 2021-2026 (\$ millions)

Figure 63. India 3D Porous Copper Foil Revenue Growth 2021-2026 (\$ millions)

Figure 64. Australia 3D Porous Copper Foil Revenue Growth 2021-2026 (\$ millions)

Figure 65. China Taiwan 3D Porous Copper Foil Revenue Growth 2021-2026 (\$ millions)

Figure 66. Europe 3D Porous Copper Foil Sales Market Share by Country in 2025

Figure 67. Europe 3D Porous Copper Foil Revenue Market Share by Country (2021-2026)

Figure 68. Europe 3D Porous Copper Foil Sales Market Share by Type (2021-2026)

Figure 69. Europe 3D Porous Copper Foil Sales Market Share by Application (2021-2026)

Figure 70. Germany 3D Porous Copper Foil Revenue Growth 2021-2026 (\$ millions)

Figure 71. France 3D Porous Copper Foil Revenue Growth 2021-2026 (\$ millions)

Figure 72. UK 3D Porous Copper Foil Revenue Growth 2021-2026 (\$ millions)

Figure 73. Italy 3D Porous Copper Foil Revenue Growth 2021-2026 (\$ millions)

Figure 74. Russia 3D Porous Copper Foil Revenue Growth 2021-2026 (\$ millions)

Figure 75. Middle East & Africa 3D Porous Copper Foil Sales Market Share by Country (2021-2026)

Figure 76. Middle East & Africa 3D Porous Copper Foil Sales Market Share by Type (2021-2026)

Figure 77. Middle East & Africa 3D Porous Copper Foil Sales Market Share by Application (2021-2026)

Figure 78. Egypt 3D Porous Copper Foil Revenue Growth 2021-2026 (\$ millions)

Figure 79. South Africa 3D Porous Copper Foil Revenue Growth 2021-2026 (\$ millions)

Figure 80. Israel 3D Porous Copper Foil Revenue Growth 2021-2026 (\$ millions)

Figure 81. Turkey 3D Porous Copper Foil Revenue Growth 2021-2026 (\$ millions)

Figure 82. GCC Countries 3D Porous Copper Foil Revenue Growth 2021-2026 (\$ millions)

Figure 83. Manufacturing Cost Structure Analysis of 3D Porous Copper Foil in 2026

Figure 84. Manufacturing Process Analysis of 3D Porous Copper Foil

Figure 85. Industry Chain Structure of 3D Porous Copper Foil

Figure 86. Channels of Distribution

Figure 87. Global 3D Porous Copper Foil Sales Market Forecast by Region (2027-2032)

Figure 88. Global 3D Porous Copper Foil Revenue Market Share Forecast by Region (2027-2032)

Figure 89. Global 3D Porous Copper Foil Sales Market Share Forecast by Type (2027-2032)

Figure 90. Global 3D Porous Copper Foil Revenue Market Share Forecast by Type

(2027-2032)

Figure 91. Global 3D Porous Copper Foil Sales Market Share Forecast by Application

(2027-2032)

Figure 92. Global 3D Porous Copper Foil Revenue Market Share Forecast by

Application (2027-2032)

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