

Global 3D Porous Copper Foil Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global 3D Porous Copper Foil market size was valued at US\$ 165 million in 2025 and is forecast to a readjusted size of US\$ 2050 million by 2032 with a CAGR of 43.9% during review period.

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.

This report is a detailed and comprehensive analysis for global 3D Porous Copper Foil market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global 3D Porous Copper Foil market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global 3D Porous Copper Foil market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global 3D Porous Copper Foil market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global 3D Porous Copper Foil market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for 3D Porous Copper Foil

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global 3D Porous Copper Foil market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Nuode New Materials, Jiayuan

Technology, Defu Technology, Zhongyi Technology, Tongguan Copper Foil, Mitsui Kinzoku, Furukawa Electric, SK Nexilis, Circuit Foil, etc.

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

Market Segmentation

3D Porous Copper Foil market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

6-12mm

6-12mm

Market segment by Porosity Rate

30%-50% Porosity Rate

Specific Capacity 50%

Others

Market segment by Surface Treatment

Bare Copper Microporous Copper Foil

Nickel-plated Microporous Copper Foil

Others

Market segment by Application

Power Battery

Consumer Battery

Others

Major players covered

Nuode New Materials

Jiayuan Technology

Defu Technology

Zhongyi Technology

Tongguan Copper Foil

Mitsui Kinzoku

Furukawa Electric

SK Nexilis

Circuit Foil

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of

Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe 3D Porous Copper Foil product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 3D Porous Copper Foil, with price, sales quantity, revenue, and global market share of 3D Porous Copper Foil from 2021 to 2026.

Chapter 3, the 3D Porous Copper Foil competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 3D Porous Copper Foil breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and 3D Porous Copper Foil market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of 3D Porous Copper Foil.

Chapter 14 and 15, to describe 3D Porous Copper Foil sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global 3D Porous Copper Foil Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 ?6?m

1.3.3 6-12?m

1.4 Market Analysis by Porosity Rate

1.4.1 Overview: Global 3D Porous Copper Foil Consumption Value by Porosity Rate: 2021 Versus 2025 Versus 2032

1.4.2 30%?Porosity Rate?50%

1.4.3 Specific Capacity?50%

1.4.4 Others

1.5 Market Analysis by Surface Treatment

1.5.1 Overview: Global 3D Porous Copper Foil Consumption Value by Surface Treatment: 2021 Versus 2025 Versus 2032

1.5.2 Bare Copper Microporous Copper Foil

1.5.3 Nickel-plated Microporous Copper Foil

1.5.4 Others

1.6 Market Analysis by Application

1.6.1 Overview: Global 3D Porous Copper Foil Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Power Battery

1.6.3 Consumer Battery

1.6.4 Others

1.7 Global 3D Porous Copper Foil Market Size & Forecast

1.7.1 Global 3D Porous Copper Foil Consumption Value (2021 & 2025 & 2032)

1.7.2 Global 3D Porous Copper Foil Sales Quantity (2021-2032)

1.7.3 Global 3D Porous Copper Foil Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Nuode New Materials

2.1.1 Nuode New Materials Details

2.1.2 Nuode New Materials Major Business

- 2.1.3 Nuode New Materials 3D Porous Copper Foil Product and Services
- 2.1.4 Nuode New Materials 3D Porous Copper Foil Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 Nuode New Materials Recent Developments/Updates
- 2.2 Jiayuan Technology
 - 2.2.1 Jiayuan Technology Details
 - 2.2.2 Jiayuan Technology Major Business
 - 2.2.3 Jiayuan Technology 3D Porous Copper Foil Product and Services
 - 2.2.4 Jiayuan Technology 3D Porous Copper Foil Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.2.5 Jiayuan Technology Recent Developments/Updates
- 2.3 Defu Technology
 - 2.3.1 Defu Technology Details
 - 2.3.2 Defu Technology Major Business
 - 2.3.3 Defu Technology 3D Porous Copper Foil Product and Services
 - 2.3.4 Defu Technology 3D Porous Copper Foil Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.3.5 Defu Technology Recent Developments/Updates
- 2.4 Zhongyi Technology
 - 2.4.1 Zhongyi Technology Details
 - 2.4.2 Zhongyi Technology Major Business
 - 2.4.3 Zhongyi Technology 3D Porous Copper Foil Product and Services
 - 2.4.4 Zhongyi Technology 3D Porous Copper Foil Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.4.5 Zhongyi Technology Recent Developments/Updates
- 2.5 Tongguan Copper Foil
 - 2.5.1 Tongguan Copper Foil Details
 - 2.5.2 Tongguan Copper Foil Major Business
 - 2.5.3 Tongguan Copper Foil 3D Porous Copper Foil Product and Services
 - 2.5.4 Tongguan Copper Foil 3D Porous Copper Foil Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 Tongguan Copper Foil Recent Developments/Updates
- 2.6 Mitsui Kinzoku
 - 2.6.1 Mitsui Kinzoku Details
 - 2.6.2 Mitsui Kinzoku Major Business
 - 2.6.3 Mitsui Kinzoku 3D Porous Copper Foil Product and Services
 - 2.6.4 Mitsui Kinzoku 3D Porous Copper Foil Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.6.5 Mitsui Kinzoku Recent Developments/Updates

2.7 Furukawa Electric

2.7.1 Furukawa Electric Details

2.7.2 Furukawa Electric Major Business

2.7.3 Furukawa Electric 3D Porous Copper Foil Product and Services

2.7.4 Furukawa Electric 3D Porous Copper Foil Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Furukawa Electric Recent Developments/Updates

2.8 SK Nexilis

2.8.1 SK Nexilis Details

2.8.2 SK Nexilis Major Business

2.8.3 SK Nexilis 3D Porous Copper Foil Product and Services

2.8.4 SK Nexilis 3D Porous Copper Foil Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 SK Nexilis Recent Developments/Updates

2.9 Circuit Foil

2.9.1 Circuit Foil Details

2.9.2 Circuit Foil Major Business

2.9.3 Circuit Foil 3D Porous Copper Foil Product and Services

2.9.4 Circuit Foil 3D Porous Copper Foil Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Circuit Foil Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: 3D POROUS COPPER FOIL BY MANUFACTURER

3.1 Global 3D Porous Copper Foil Sales Quantity by Manufacturer (2021-2026)

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

3.3 Global 3D Porous Copper Foil Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of 3D Porous Copper Foil by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 3D Porous Copper Foil Manufacturer Market Share in 2025

3.4.3 Top 6 3D Porous Copper Foil Manufacturer Market Share in 2025

3.5 3D Porous Copper Foil Market: Overall Company Footprint Analysis

3.5.1 3D Porous Copper Foil Market: Region Footprint

3.5.2 3D Porous Copper Foil Market: Company Product Type Footprint

3.5.3 3D Porous Copper Foil Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global 3D Porous Copper Foil Market Size by Region

- 4.1.1 Global 3D Porous Copper Foil Sales Quantity by Region (2021-2032)
- 4.1.2 Global 3D Porous Copper Foil Consumption Value by Region (2021-2032)
- 4.1.3 Global 3D Porous Copper Foil Average Price by Region (2021-2032)

4.2 North America 3D Porous Copper Foil Consumption Value (2021-2032)

4.3 Europe 3D Porous Copper Foil Consumption Value (2021-2032)

4.4 Asia-Pacific 3D Porous Copper Foil Consumption Value (2021-2032)

4.5 South America 3D Porous Copper Foil Consumption Value (2021-2032)

4.6 Middle East & Africa 3D Porous Copper Foil Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global 3D Porous Copper Foil Sales Quantity by Type (2021-2032)

5.2 Global 3D Porous Copper Foil Consumption Value by Type (2021-2032)

5.3 Global 3D Porous Copper Foil Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global 3D Porous Copper Foil Sales Quantity by Application (2021-2032)

6.2 Global 3D Porous Copper Foil Consumption Value by Application (2021-2032)

6.3 Global 3D Porous Copper Foil Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America 3D Porous Copper Foil Sales Quantity by Type (2021-2032)

7.2 North America 3D Porous Copper Foil Sales Quantity by Application (2021-2032)

7.3 North America 3D Porous Copper Foil Market Size by Country

7.3.1 North America 3D Porous Copper Foil Sales Quantity by Country (2021-2032)

7.3.2 North America 3D Porous Copper Foil Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

- 8.1 Europe 3D Porous Copper Foil Sales Quantity by Type (2021-2032)
- 8.2 Europe 3D Porous Copper Foil Sales Quantity by Application (2021-2032)
- 8.3 Europe 3D Porous Copper Foil Market Size by Country
 - 8.3.1 Europe 3D Porous Copper Foil Sales Quantity by Country (2021-2032)
 - 8.3.2 Europe 3D Porous Copper Foil Consumption Value by Country (2021-2032)
 - 8.3.3 Germany Market Size and Forecast (2021-2032)
 - 8.3.4 France Market Size and Forecast (2021-2032)
 - 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
 - 8.3.6 Russia Market Size and Forecast (2021-2032)
 - 8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific 3D Porous Copper Foil Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific 3D Porous Copper Foil Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific 3D Porous Copper Foil Market Size by Region
 - 9.3.1 Asia-Pacific 3D Porous Copper Foil Sales Quantity by Region (2021-2032)
 - 9.3.2 Asia-Pacific 3D Porous Copper Foil Consumption Value by Region (2021-2032)
 - 9.3.3 China Market Size and Forecast (2021-2032)
 - 9.3.4 Japan Market Size and Forecast (2021-2032)
 - 9.3.5 South Korea Market Size and Forecast (2021-2032)
 - 9.3.6 India Market Size and Forecast (2021-2032)
 - 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
 - 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America 3D Porous Copper Foil Sales Quantity by Type (2021-2032)
- 10.2 South America 3D Porous Copper Foil Sales Quantity by Application (2021-2032)
- 10.3 South America 3D Porous Copper Foil Market Size by Country
 - 10.3.1 South America 3D Porous Copper Foil Sales Quantity by Country (2021-2032)
 - 10.3.2 South America 3D Porous Copper Foil Consumption Value by Country (2021-2032)
 - 10.3.3 Brazil Market Size and Forecast (2021-2032)
 - 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa 3D Porous Copper Foil Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa 3D Porous Copper Foil Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa 3D Porous Copper Foil Market Size by Country

11.3.1 Middle East & Africa 3D Porous Copper Foil Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa 3D Porous Copper Foil Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 3D Porous Copper Foil Market Drivers

12.2 3D Porous Copper Foil Market Restraints

12.3 3D Porous Copper Foil Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of 3D Porous Copper Foil and Key Manufacturers

13.2 Manufacturing Costs Percentage of 3D Porous Copper Foil

13.3 3D Porous Copper Foil Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 3D Porous Copper Foil Typical Distributors

14.3 3D Porous Copper Foil Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global 3D Porous Copper Foil Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global 3D Porous Copper Foil Consumption Value by Porosity Rate, (USD Million), 2021 & 2025 & 2032

Table 3. Global 3D Porous Copper Foil Consumption Value by Surface Treatment, (USD Million), 2021 & 2025 & 2032

Table 4. Global 3D Porous Copper Foil Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Nuode New Materials Basic Information, Manufacturing Base and Competitors

Table 6. Nuode New Materials Major Business

Table 7. Nuode New Materials 3D Porous Copper Foil Product and Services

Table 8. Nuode New Materials 3D Porous Copper Foil Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Nuode New Materials Recent Developments/Updates

Table 10. Jiayuan Technology Basic Information, Manufacturing Base and Competitors

Table 11. Jiayuan Technology Major Business

Table 12. Jiayuan Technology 3D Porous Copper Foil Product and Services

Table 13. Jiayuan Technology 3D Porous Copper Foil Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Jiayuan Technology Recent Developments/Updates

Table 15. Defu Technology Basic Information, Manufacturing Base and Competitors

Table 16. Defu Technology Major Business

Table 17. Defu Technology 3D Porous Copper Foil Product and Services

Table 18. Defu Technology 3D Porous Copper Foil Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Defu Technology Recent Developments/Updates

Table 20. Zhongyi Technology Basic Information, Manufacturing Base and Competitors

Table 21. Zhongyi Technology Major Business

Table 22. Zhongyi Technology 3D Porous Copper Foil Product and Services

Table 23. Zhongyi Technology 3D Porous Copper Foil Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Zhongyi Technology Recent Developments/Updates

Table 25. Tongguan Copper Foil Basic Information, Manufacturing Base and Competitors

Table 26. Tongguan Copper Foil Major Business

Table 27. Tongguan Copper Foil 3D Porous Copper Foil Product and Services
Table 28. Tongguan Copper Foil 3D Porous Copper Foil Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 29. Tongguan Copper Foil Recent Developments/Updates
Table 30. Mitsui Kinzoku Basic Information, Manufacturing Base and Competitors
Table 31. Mitsui Kinzoku Major Business
Table 32. Mitsui Kinzoku 3D Porous Copper Foil Product and Services
Table 33. Mitsui Kinzoku 3D Porous Copper Foil Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 34. Mitsui Kinzoku Recent Developments/Updates
Table 35. Furukawa Electric Basic Information, Manufacturing Base and Competitors
Table 36. Furukawa Electric Major Business
Table 37. Furukawa Electric 3D Porous Copper Foil Product and Services
Table 38. Furukawa Electric 3D Porous Copper Foil Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 39. Furukawa Electric Recent Developments/Updates
Table 40. SK Nexilis Basic Information, Manufacturing Base and Competitors
Table 41. SK Nexilis Major Business
Table 42. SK Nexilis 3D Porous Copper Foil Product and Services
Table 43. SK Nexilis 3D Porous Copper Foil Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 44. SK Nexilis Recent Developments/Updates
Table 45. Circuit Foil Basic Information, Manufacturing Base and Competitors
Table 46. Circuit Foil Major Business
Table 47. Circuit Foil 3D Porous Copper Foil Product and Services
Table 48. Circuit Foil 3D Porous Copper Foil Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 49. Circuit Foil Recent Developments/Updates
Table 50. Global 3D Porous Copper Foil Sales Quantity by Manufacturer (2021-2026) & (Tons)
Table 51. Global 3D Porous Copper Foil Revenue by Manufacturer (2021-2026) & (USD Million)
Table 52. Global 3D Porous Copper Foil Average Price by Manufacturer (2021-2026) & (US\$/Ton)
Table 53. Market Position of Manufacturers in 3D Porous Copper Foil, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
Table 54. Head Office and 3D Porous Copper Foil Production Site of Key Manufacturer
Table 55. 3D Porous Copper Foil Market: Company Product Type Footprint

Table 56. 3D Porous Copper Foil Market: Company Product Application Footprint
Table 57. 3D Porous Copper Foil New Market Entrants and Barriers to Market Entry
Table 58. 3D Porous Copper Foil Mergers, Acquisition, Agreements, and Collaborations
Table 59. Global 3D Porous Copper Foil Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
Table 60. Global 3D Porous Copper Foil Sales Quantity by Region (2021-2026) & (Tons)
Table 61. Global 3D Porous Copper Foil Sales Quantity by Region (2027-2032) & (Tons)
Table 62. Global 3D Porous Copper Foil Consumption Value by Region (2021-2026) & (USD Million)
Table 63. Global 3D Porous Copper Foil Consumption Value by Region (2027-2032) & (USD Million)
Table 64. Global 3D Porous Copper Foil Average Price by Region (2021-2026) & (US\$/Ton)
Table 65. Global 3D Porous Copper Foil Average Price by Region (2027-2032) & (US\$/Ton)
Table 66. Global 3D Porous Copper Foil Sales Quantity by Type (2021-2026) & (Tons)
Table 67. Global 3D Porous Copper Foil Sales Quantity by Type (2027-2032) & (Tons)
Table 68. Global 3D Porous Copper Foil Consumption Value by Type (2021-2026) & (USD Million)
Table 69. Global 3D Porous Copper Foil Consumption Value by Type (2027-2032) & (USD Million)
Table 70. Global 3D Porous Copper Foil Average Price by Type (2021-2026) & (US\$/Ton)
Table 71. Global 3D Porous Copper Foil Average Price by Type (2027-2032) & (US\$/Ton)
Table 72. Global 3D Porous Copper Foil Sales Quantity by Application (2021-2026) & (Tons)
Table 73. Global 3D Porous Copper Foil Sales Quantity by Application (2027-2032) & (Tons)
Table 74. Global 3D Porous Copper Foil Consumption Value by Application (2021-2026) & (USD Million)
Table 75. Global 3D Porous Copper Foil Consumption Value by Application (2027-2032) & (USD Million)
Table 76. Global 3D Porous Copper Foil Average Price by Application (2021-2026) & (US\$/Ton)
Table 77. Global 3D Porous Copper Foil Average Price by Application (2027-2032) & (US\$/Ton)

Table 78. North America 3D Porous Copper Foil Sales Quantity by Type (2021-2026) & (Tons)

Table 79. North America 3D Porous Copper Foil Sales Quantity by Type (2027-2032) & (Tons)

Table 80. North America 3D Porous Copper Foil Sales Quantity by Application (2021-2026) & (Tons)

Table 81. North America 3D Porous Copper Foil Sales Quantity by Application (2027-2032) & (Tons)

Table 82. North America 3D Porous Copper Foil Sales Quantity by Country (2021-2026) & (Tons)

Table 83. North America 3D Porous Copper Foil Sales Quantity by Country (2027-2032) & (Tons)

Table 84. North America 3D Porous Copper Foil Consumption Value by Country (2021-2026) & (USD Million)

Table 85. North America 3D Porous Copper Foil Consumption Value by Country (2027-2032) & (USD Million)

Table 86. Europe 3D Porous Copper Foil Sales Quantity by Type (2021-2026) & (Tons)

Table 87. Europe 3D Porous Copper Foil Sales Quantity by Type (2027-2032) & (Tons)

Table 88. Europe 3D Porous Copper Foil Sales Quantity by Application (2021-2026) & (Tons)

Table 89. Europe 3D Porous Copper Foil Sales Quantity by Application (2027-2032) & (Tons)

Table 90. Europe 3D Porous Copper Foil Sales Quantity by Country (2021-2026) & (Tons)

Table 91. Europe 3D Porous Copper Foil Sales Quantity by Country (2027-2032) & (Tons)

Table 92. Europe 3D Porous Copper Foil Consumption Value by Country (2021-2026) & (USD Million)

Table 93. Europe 3D Porous Copper Foil Consumption Value by Country (2027-2032) & (USD Million)

Table 94. Asia-Pacific 3D Porous Copper Foil Sales Quantity by Type (2021-2026) & (Tons)

Table 95. Asia-Pacific 3D Porous Copper Foil Sales Quantity by Type (2027-2032) & (Tons)

Table 96. Asia-Pacific 3D Porous Copper Foil Sales Quantity by Application (2021-2026) & (Tons)

Table 97. Asia-Pacific 3D Porous Copper Foil Sales Quantity by Application (2027-2032) & (Tons)

Table 98. Asia-Pacific 3D Porous Copper Foil Sales Quantity by Region (2021-2026) &

(Tons)

Table 99. Asia-Pacific 3D Porous Copper Foil Sales Quantity by Region (2027-2032) & (Tons)

Table 100. Asia-Pacific 3D Porous Copper Foil Consumption Value by Region (2021-2026) & (USD Million)

Table 101. Asia-Pacific 3D Porous Copper Foil Consumption Value by Region (2027-2032) & (USD Million)

Table 102. South America 3D Porous Copper Foil Sales Quantity by Type (2021-2026) & (Tons)

Table 103. South America 3D Porous Copper Foil Sales Quantity by Type (2027-2032) & (Tons)

Table 104. South America 3D Porous Copper Foil Sales Quantity by Application (2021-2026) & (Tons)

Table 105. South America 3D Porous Copper Foil Sales Quantity by Application (2027-2032) & (Tons)

Table 106. South America 3D Porous Copper Foil Sales Quantity by Country (2021-2026) & (Tons)

Table 107. South America 3D Porous Copper Foil Sales Quantity by Country (2027-2032) & (Tons)

Table 108. South America 3D Porous Copper Foil Consumption Value by Country (2021-2026) & (USD Million)

Table 109. South America 3D Porous Copper Foil Consumption Value by Country (2027-2032) & (USD Million)

Table 110. Middle East & Africa 3D Porous Copper Foil Sales Quantity by Type (2021-2026) & (Tons)

Table 111. Middle East & Africa 3D Porous Copper Foil Sales Quantity by Type (2027-2032) & (Tons)

Table 112. Middle East & Africa 3D Porous Copper Foil Sales Quantity by Application (2021-2026) & (Tons)

Table 113. Middle East & Africa 3D Porous Copper Foil Sales Quantity by Application (2027-2032) & (Tons)

Table 114. Middle East & Africa 3D Porous Copper Foil Sales Quantity by Country (2021-2026) & (Tons)

Table 115. Middle East & Africa 3D Porous Copper Foil Sales Quantity by Country (2027-2032) & (Tons)

Table 116. Middle East & Africa 3D Porous Copper Foil Consumption Value by Country (2021-2026) & (USD Million)

Table 117. Middle East & Africa 3D Porous Copper Foil Consumption Value by Country (2027-2032) & (USD Million)

Table 118. 3D Porous Copper Foil Raw Material

Table 119. Key Manufacturers of 3D Porous Copper Foil Raw Materials

Table 120. 3D Porous Copper Foil Typical Distributors

Table 121. 3D Porous Copper Foil Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. 3D Porous Copper Foil Picture

Figure 2. Global 3D Porous Copper Foil Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global 3D Porous Copper Foil Revenue Market Share by Type in 2025

Figure 4. 6-12µm Examples

Figure 5. 6-12µm Examples

Figure 6. Global 3D Porous Copper Foil Revenue by Porosity Rate, (USD Million), 2021 & 2025 & 2032

Figure 7. Global 3D Porous Copper Foil Revenue Market Share by Porosity Rate in 2025

Figure 8. 30%-50% Porosity Rate Examples

Figure 9. Specific Capacity Examples

Figure 10. Others Examples

Figure 11. Global 3D Porous Copper Foil Revenue by Surface Treatment, (USD Million), 2021 & 2025 & 2032

Figure 12. Global 3D Porous Copper Foil Revenue Market Share by Surface Treatment in 2025

Figure 13. Bare Copper Microporous Copper Foil Examples

Figure 14. Nickel-plated Microporous Copper Foil Examples

Figure 15. Others Examples

Figure 16. Global 3D Porous Copper Foil Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 17. Global 3D Porous Copper Foil Revenue Market Share by Application in 2025

Figure 18. Power Battery Examples

Figure 19. Consumer Battery Examples

Figure 20. Others Examples

Figure 21. Global 3D Porous Copper Foil Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 22. Global 3D Porous Copper Foil Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 23. Global 3D Porous Copper Foil Sales Quantity (2021-2032) & (Tons)

Figure 24. Global 3D Porous Copper Foil Price (2021-2032) & (US\$/Ton)

Figure 25. Global 3D Porous Copper Foil Sales Quantity Market Share by Manufacturer in 2025

Figure 26. Global 3D Porous Copper Foil Revenue Market Share by Manufacturer in

2025

Figure 27. Producer Shipments of 3D Porous Copper Foil by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 28. Top 3 3D Porous Copper Foil Manufacturer (Revenue) Market Share in 2025

Figure 29. Top 6 3D Porous Copper Foil Manufacturer (Revenue) Market Share in 2025

Figure 30. Global 3D Porous Copper Foil Sales Quantity Market Share by Region (2021-2032)

Figure 31. Global 3D Porous Copper Foil Consumption Value Market Share by Region (2021-2032)

Figure 32. North America 3D Porous Copper Foil Consumption Value (2021-2032) & (USD Million)

Figure 33. Europe 3D Porous Copper Foil Consumption Value (2021-2032) & (USD Million)

Figure 34. Asia-Pacific 3D Porous Copper Foil Consumption Value (2021-2032) & (USD Million)

Figure 35. South America 3D Porous Copper Foil Consumption Value (2021-2032) & (USD Million)

Figure 36. Middle East & Africa 3D Porous Copper Foil Consumption Value (2021-2032) & (USD Million)

Figure 37. Global 3D Porous Copper Foil Sales Quantity Market Share by Type (2021-2032)

Figure 38. Global 3D Porous Copper Foil Consumption Value Market Share by Type (2021-2032)

Figure 39. Global 3D Porous Copper Foil Average Price by Type (2021-2032) & (US\$/Ton)

Figure 40. Global 3D Porous Copper Foil Sales Quantity Market Share by Application (2021-2032)

Figure 41. Global 3D Porous Copper Foil Revenue Market Share by Application (2021-2032)

Figure 42. Global 3D Porous Copper Foil Average Price by Application (2021-2032) & (US\$/Ton)

Figure 43. North America 3D Porous Copper Foil Sales Quantity Market Share by Type (2021-2032)

Figure 44. North America 3D Porous Copper Foil Sales Quantity Market Share by Application (2021-2032)

Figure 45. North America 3D Porous Copper Foil Sales Quantity Market Share by Country (2021-2032)

Figure 46. North America 3D Porous Copper Foil Consumption Value Market Share by Country (2021-2032)

Figure 47. United States 3D Porous Copper Foil Consumption Value (2021-2032) & (USD Million)

Figure 48. Canada 3D Porous Copper Foil Consumption Value (2021-2032) & (USD Million)

Figure 49. Mexico 3D Porous Copper Foil Consumption Value (2021-2032) & (USD Million)

Figure 50. Europe 3D Porous Copper Foil Sales Quantity Market Share by Type (2021-2032)

Figure 51. Europe 3D Porous Copper Foil Sales Quantity Market Share by Application (2021-2032)

Figure 52. Europe 3D Porous Copper Foil Sales Quantity Market Share by Country (2021-2032)

Figure 53. Europe 3D Porous Copper Foil Consumption Value Market Share by Country (2021-2032)

Figure 54. Germany 3D Porous Copper Foil Consumption Value (2021-2032) & (USD Million)

Figure 55. France 3D Porous Copper Foil Consumption Value (2021-2032) & (USD Million)

Figure 56. United Kingdom 3D Porous Copper Foil Consumption Value (2021-2032) & (USD Million)

Figure 57. Russia 3D Porous Copper Foil Consumption Value (2021-2032) & (USD Million)

Figure 58. Italy 3D Porous Copper Foil Consumption Value (2021-2032) & (USD Million)

Figure 59. Asia-Pacific 3D Porous Copper Foil Sales Quantity Market Share by Type (2021-2032)

Figure 60. Asia-Pacific 3D Porous Copper Foil Sales Quantity Market Share by Application (2021-2032)

Figure 61. Asia-Pacific 3D Porous Copper Foil Sales Quantity Market Share by Region (2021-2032)

Figure 62. Asia-Pacific 3D Porous Copper Foil Consumption Value Market Share by Region (2021-2032)

Figure 63. China 3D Porous Copper Foil Consumption Value (2021-2032) & (USD Million)

Figure 64. Japan 3D Porous Copper Foil Consumption Value (2021-2032) & (USD Million)

Figure 65. South Korea 3D Porous Copper Foil Consumption Value (2021-2032) & (USD Million)

Figure 66. India 3D Porous Copper Foil Consumption Value (2021-2032) & (USD Million)

Figure 67. Southeast Asia 3D Porous Copper Foil Consumption Value (2021-2032) & (USD Million)

Figure 68. Australia 3D Porous Copper Foil Consumption Value (2021-2032) & (USD Million)

Figure 69. South America 3D Porous Copper Foil Sales Quantity Market Share by Type (2021-2032)

Figure 70. South America 3D Porous Copper Foil Sales Quantity Market Share by Application (2021-2032)

Figure 71. South America 3D Porous Copper Foil Sales Quantity Market Share by Country (2021-2032)

Figure 72. South America 3D Porous Copper Foil Consumption Value Market Share by Country (2021-2032)

Figure 73. Brazil 3D Porous Copper Foil Consumption Value (2021-2032) & (USD Million)

Figure 74. Argentina 3D Porous Copper Foil Consumption Value (2021-2032) & (USD Million)

Figure 75. Middle East & Africa 3D Porous Copper Foil Sales Quantity Market Share by Type (2021-2032)

Figure 76. Middle East & Africa 3D Porous Copper Foil Sales Quantity Market Share by Application (2021-2032)

Figure 77. Middle East & Africa 3D Porous Copper Foil Sales Quantity Market Share by Country (2021-2032)

Figure 78. Middle East & Africa 3D Porous Copper Foil Consumption Value Market Share by Country (2021-2032)

Figure 79. Turkey 3D Porous Copper Foil Consumption Value (2021-2032) & (USD Million)

Figure 80. Egypt 3D Porous Copper Foil Consumption Value (2021-2032) & (USD Million)

Figure 81. Saudi Arabia 3D Porous Copper Foil Consumption Value (2021-2032) & (USD Million)

Figure 82. South Africa 3D Porous Copper Foil Consumption Value (2021-2032) & (USD Million)

Figure 83. 3D Porous Copper Foil Market Drivers

Figure 84. 3D Porous Copper Foil Market Restraints

Figure 85. 3D Porous Copper Foil Market Trends

Figure 86. Porters Five Forces Analysis

Figure 87. Manufacturing Cost Structure Analysis of 3D Porous Copper Foil in 2025

Figure 88. Manufacturing Process Analysis of 3D Porous Copper Foil

Figure 89. 3D Porous Copper Foil Industrial Chain

Figure 90. Sales Channel: Direct to End-User vs Distributors

Figure 91. Direct Channel Pros & Cons

Figure 92. Indirect Channel Pros & Cons

Figure 93. Methodology

Figure 94. Research Process and Data Source

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