

Global 3D Porous Copper Foil Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 3D Porous Copper Foil market size is expected to reach \$ 2050 million by 2032, rising at a market growth of 43.9% CAGR during the forecast period (2026-2032).

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.

This report studies the global 3D Porous Copper Foil production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 3D Porous Copper Foil and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of 3D Porous Copper Foil that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 3D Porous Copper Foil total production and demand, 2021-2032, (Tons)

Global 3D Porous Copper Foil total production value, 2021-2032, (USD Million)

Global 3D Porous Copper Foil production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global 3D Porous Copper Foil consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: 3D Porous Copper Foil domestic production, consumption, key domestic manufacturers and share

Global 3D Porous Copper Foil production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global 3D Porous Copper Foil production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global 3D Porous Copper Foil production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World 3D Porous Copper Foil market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global 3D Porous Copper Foil Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 3D Porous Copper Foil Market, Segmentation by Type:

?6?m

6-12?m

Global 3D Porous Copper Foil Market, Segmentation by Porosity Rate:

30%?Porosity Rate?50%

Specific Capacity?50%

Others

Global 3D Porous Copper Foil Market, Segmentation by Surface Treatment:

Bare Copper Microporous Copper Foil

Nickel-plated Microporous Copper Foil

Others

Global 3D Porous Copper Foil Market, Segmentation by Application:

Power Battery

Consumer Battery

Others

Companies Profiled:

Nuode New Materials

Jiayuan Technology

Defu Technology

Zhongyi Technology

Tongguan Copper Foil

Mitsui Kinzoku

Furukawa Electric

SK Nexilis

Circuit Foil

Key Questions Answered:

1. How big is the global 3D Porous Copper Foil market?
2. What is the demand of the global 3D Porous Copper Foil market?
3. What is the year over year growth of the global 3D Porous Copper Foil market?
4. What is the production and production value of the global 3D Porous Copper Foil market?
5. Who are the key producers in the global 3D Porous Copper Foil market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 3D Porous Copper Foil Introduction
- 1.2 World 3D Porous Copper Foil Supply & Forecast
 - 1.2.1 World 3D Porous Copper Foil Production Value (2021 & 2025 & 2032)
 - 1.2.2 World 3D Porous Copper Foil Production (2021-2032)
 - 1.2.3 World 3D Porous Copper Foil Pricing Trends (2021-2032)
- 1.3 World 3D Porous Copper Foil Production by Region (Based on Production Site)
 - 1.3.1 World 3D Porous Copper Foil Production Value by Region (2021-2032)
 - 1.3.2 World 3D Porous Copper Foil Production by Region (2021-2032)
 - 1.3.3 World 3D Porous Copper Foil Average Price by Region (2021-2032)
 - 1.3.4 North America 3D Porous Copper Foil Production (2021-2032)
 - 1.3.5 Europe 3D Porous Copper Foil Production (2021-2032)
 - 1.3.6 China 3D Porous Copper Foil Production (2021-2032)
 - 1.3.7 Japan 3D Porous Copper Foil Production (2021-2032)
 - 1.3.8 India 3D Porous Copper Foil Production (2021-2032)
 - 1.3.9 Southeast Asia 3D Porous Copper Foil Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 3D Porous Copper Foil Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 3D Porous Copper Foil Major Market Trends

2 DEMAND SUMMARY

- 2.1 World 3D Porous Copper Foil Demand (2021-2032)
- 2.2 World 3D Porous Copper Foil Consumption by Region
 - 2.2.1 World 3D Porous Copper Foil Consumption by Region (2021-2026)
 - 2.2.2 World 3D Porous Copper Foil Consumption Forecast by Region (2027-2032)
- 2.3 United States 3D Porous Copper Foil Consumption (2021-2032)
- 2.4 China 3D Porous Copper Foil Consumption (2021-2032)
- 2.5 Europe 3D Porous Copper Foil Consumption (2021-2032)
- 2.6 Japan 3D Porous Copper Foil Consumption (2021-2032)
- 2.7 South Korea 3D Porous Copper Foil Consumption (2021-2032)
- 2.8 ASEAN 3D Porous Copper Foil Consumption (2021-2032)
- 2.9 India 3D Porous Copper Foil Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World 3D Porous Copper Foil Production Value by Manufacturer (2021-2026)
- 3.2 World 3D Porous Copper Foil Production by Manufacturer (2021-2026)
- 3.3 World 3D Porous Copper Foil Average Price by Manufacturer (2021-2026)
- 3.4 3D Porous Copper Foil Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global 3D Porous Copper Foil Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for 3D Porous Copper Foil in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for 3D Porous Copper Foil in 2025
- 3.6 3D Porous Copper Foil Market: Overall Company Footprint Analysis
 - 3.6.1 3D Porous Copper Foil Market: Region Footprint
 - 3.6.2 3D Porous Copper Foil Market: Company Product Type Footprint
 - 3.6.3 3D Porous Copper Foil Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: 3D Porous Copper Foil Production Value Comparison
 - 4.1.1 United States VS China: 3D Porous Copper Foil Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: 3D Porous Copper Foil Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: 3D Porous Copper Foil Production Comparison
 - 4.2.1 United States VS China: 3D Porous Copper Foil Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: 3D Porous Copper Foil Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: 3D Porous Copper Foil Consumption Comparison
 - 4.3.1 United States VS China: 3D Porous Copper Foil Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: 3D Porous Copper Foil Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based 3D Porous Copper Foil Manufacturers and Market Share, 2021-2026

4.4.1 United States Based 3D Porous Copper Foil Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers 3D Porous Copper Foil Production Value (2021-2026)

4.4.3 United States Based Manufacturers 3D Porous Copper Foil Production (2021-2026)

4.5 China Based 3D Porous Copper Foil Manufacturers and Market Share

4.5.1 China Based 3D Porous Copper Foil Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers 3D Porous Copper Foil Production Value (2021-2026)

4.5.3 China Based Manufacturers 3D Porous Copper Foil Production (2021-2026)

4.6 Rest of World Based 3D Porous Copper Foil Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based 3D Porous Copper Foil Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers 3D Porous Copper Foil Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers 3D Porous Copper Foil Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World 3D Porous Copper Foil Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 ?6?m

5.2.2 6-12?m

5.3 Market Segment by Type

5.3.1 World 3D Porous Copper Foil Production by Type (2021-2032)

5.3.2 World 3D Porous Copper Foil Production Value by Type (2021-2032)

5.3.3 World 3D Porous Copper Foil Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY POROSITY RATE

6.1 World 3D Porous Copper Foil Market Size Overview by Porosity Rate: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Porosity Rate

6.2.1 30%?Porosity Rate?50%

6.2.2 Specific Capacity?50%

6.2.3 Others

6.3 Market Segment by Porosity Rate

6.3.1 World 3D Porous Copper Foil Production by Porosity Rate (2021-2032)

6.3.2 World 3D Porous Copper Foil Production Value by Porosity Rate (2021-2032)

6.3.3 World 3D Porous Copper Foil Average Price by Porosity Rate (2021-2032)

7 MARKET ANALYSIS BY SURFACE TREATMENT

7.1 World 3D Porous Copper Foil Market Size Overview by Surface Treatment: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Surface Treatment

7.2.1 Bare Copper Microporous Copper Foil

7.2.2 Nickel-plated Microporous Copper Foil

7.2.3 Others

7.3 Market Segment by Surface Treatment

7.3.1 World 3D Porous Copper Foil Production by Surface Treatment (2021-2032)

7.3.2 World 3D Porous Copper Foil Production Value by Surface Treatment (2021-2032)

7.3.3 World 3D Porous Copper Foil Average Price by Surface Treatment (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World 3D Porous Copper Foil Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Power Battery

8.2.2 Consumer Battery

8.2.3 Others

8.3 Market Segment by Application

8.3.1 World 3D Porous Copper Foil Production by Application (2021-2032)

8.3.2 World 3D Porous Copper Foil Production Value by Application (2021-2032)

8.3.3 World 3D Porous Copper Foil Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Nuode New Materials

9.1.1 Nuode New Materials Details

9.1.2 Nuode New Materials Major Business

9.1.3 Nuode New Materials 3D Porous Copper Foil Product and Services

- 9.1.4 Nuode New Materials 3D Porous Copper Foil Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 Nuode New Materials Recent Developments/Updates
- 9.1.6 Nuode New Materials Competitive Strengths & Weaknesses
- 9.2 Jiayuan Technology
 - 9.2.1 Jiayuan Technology Details
 - 9.2.2 Jiayuan Technology Major Business
 - 9.2.3 Jiayuan Technology 3D Porous Copper Foil Product and Services
 - 9.2.4 Jiayuan Technology 3D Porous Copper Foil Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Jiayuan Technology Recent Developments/Updates
 - 9.2.6 Jiayuan Technology Competitive Strengths & Weaknesses
- 9.3 Defu Technology
 - 9.3.1 Defu Technology Details
 - 9.3.2 Defu Technology Major Business
 - 9.3.3 Defu Technology 3D Porous Copper Foil Product and Services
 - 9.3.4 Defu Technology 3D Porous Copper Foil Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Defu Technology Recent Developments/Updates
 - 9.3.6 Defu Technology Competitive Strengths & Weaknesses
- 9.4 Zhongyi Technology
 - 9.4.1 Zhongyi Technology Details
 - 9.4.2 Zhongyi Technology Major Business
 - 9.4.3 Zhongyi Technology 3D Porous Copper Foil Product and Services
 - 9.4.4 Zhongyi Technology 3D Porous Copper Foil Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Zhongyi Technology Recent Developments/Updates
 - 9.4.6 Zhongyi Technology Competitive Strengths & Weaknesses
- 9.5 Tongguan Copper Foil
 - 9.5.1 Tongguan Copper Foil Details
 - 9.5.2 Tongguan Copper Foil Major Business
 - 9.5.3 Tongguan Copper Foil 3D Porous Copper Foil Product and Services
 - 9.5.4 Tongguan Copper Foil 3D Porous Copper Foil Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Tongguan Copper Foil Recent Developments/Updates
 - 9.5.6 Tongguan Copper Foil Competitive Strengths & Weaknesses
- 9.6 Mitsui Kinzoku
 - 9.6.1 Mitsui Kinzoku Details
 - 9.6.2 Mitsui Kinzoku Major Business

- 9.6.3 Mitsui Kinzoku 3D Porous Copper Foil Product and Services
- 9.6.4 Mitsui Kinzoku 3D Porous Copper Foil Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 Mitsui Kinzoku Recent Developments/Updates
- 9.6.6 Mitsui Kinzoku Competitive Strengths & Weaknesses
- 9.7 Furukawa Electric
 - 9.7.1 Furukawa Electric Details
 - 9.7.2 Furukawa Electric Major Business
 - 9.7.3 Furukawa Electric 3D Porous Copper Foil Product and Services
 - 9.7.4 Furukawa Electric 3D Porous Copper Foil Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Furukawa Electric Recent Developments/Updates
 - 9.7.6 Furukawa Electric Competitive Strengths & Weaknesses
- 9.8 SK Nexilis
 - 9.8.1 SK Nexilis Details
 - 9.8.2 SK Nexilis Major Business
 - 9.8.3 SK Nexilis 3D Porous Copper Foil Product and Services
 - 9.8.4 SK Nexilis 3D Porous Copper Foil Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 SK Nexilis Recent Developments/Updates
 - 9.8.6 SK Nexilis Competitive Strengths & Weaknesses
- 9.9 Circuit Foil
 - 9.9.1 Circuit Foil Details
 - 9.9.2 Circuit Foil Major Business
 - 9.9.3 Circuit Foil 3D Porous Copper Foil Product and Services
 - 9.9.4 Circuit Foil 3D Porous Copper Foil Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Circuit Foil Recent Developments/Updates
 - 9.9.6 Circuit Foil Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 3D Porous Copper Foil Industry Chain
- 10.2 3D Porous Copper Foil Upstream Analysis
 - 10.2.1 3D Porous Copper Foil Core Raw Materials
 - 10.2.2 Main Manufacturers of 3D Porous Copper Foil Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 3D Porous Copper Foil Production Mode

10.6 3D Porous Copper Foil Procurement Model

10.7 3D Porous Copper Foil Industry Sales Model and Sales Channels

10.7.1 3D Porous Copper Foil Sales Model

10.7.2 3D Porous Copper Foil Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World 3D Porous Copper Foil Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World 3D Porous Copper Foil Production Value by Region (2021-2026) & (USD Million)

Table 3. World 3D Porous Copper Foil Production Value by Region (2027-2032) & (USD Million)

Table 4. World 3D Porous Copper Foil Production Value Market Share by Region (2021-2026)

Table 5. World 3D Porous Copper Foil Production Value Market Share by Region (2027-2032)

Table 6. World 3D Porous Copper Foil Production by Region (2021-2026) & (Tons)

Table 7. World 3D Porous Copper Foil Production by Region (2027-2032) & (Tons)

Table 8. World 3D Porous Copper Foil Production Market Share by Region (2021-2026)

Table 9. World 3D Porous Copper Foil Production Market Share by Region (2027-2032)

Table 10. World 3D Porous Copper Foil Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World 3D Porous Copper Foil Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. 3D Porous Copper Foil Major Market Trends

Table 13. World 3D Porous Copper Foil Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World 3D Porous Copper Foil Consumption by Region (2021-2026) & (Tons)

Table 15. World 3D Porous Copper Foil Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World 3D Porous Copper Foil Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key 3D Porous Copper Foil Producers in 2025

Table 18. World 3D Porous Copper Foil Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key 3D Porous Copper Foil Producers in 2025

Table 20. World 3D Porous Copper Foil Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global 3D Porous Copper Foil Company Evaluation Quadrant

Table 22. World 3D Porous Copper Foil Industry Rank of Major Manufacturers, Based

on Production Value in 2025

Table 23. Head Office and 3D Porous Copper Foil Production Site of Key Manufacturer

Table 24. 3D Porous Copper Foil Market: Company Product Type Footprint

Table 25. 3D Porous Copper Foil Market: Company Product Application Footprint

Table 26. 3D Porous Copper Foil Competitive Factors

Table 27. 3D Porous Copper Foil New Entrant and Capacity Expansion Plans

Table 28. 3D Porous Copper Foil Mergers & Acquisitions Activity

Table 29. United States VS China 3D Porous Copper Foil Production Value

Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China 3D Porous Copper Foil Production Comparison,
(2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China 3D Porous Copper Foil Consumption Comparison,
(2021 & 2025 & 2032) & (Tons)

Table 32. United States Based 3D Porous Copper Foil Manufacturers, Headquarters
and Production Site (States, Country)

Table 33. United States Based Manufacturers 3D Porous Copper Foil Production Value,
(2021-2026) & (USD Million)

Table 34. United States Based Manufacturers 3D Porous Copper Foil Production Value
Market Share (2021-2026)

Table 35. United States Based Manufacturers 3D Porous Copper Foil Production
(2021-2026) & (Tons)

Table 36. United States Based Manufacturers 3D Porous Copper Foil Production
Market Share (2021-2026)

Table 37. China Based 3D Porous Copper Foil Manufacturers, Headquarters and
Production Site (Province, Country)

Table 38. China Based Manufacturers 3D Porous Copper Foil Production Value,
(2021-2026) & (USD Million)

Table 39. China Based Manufacturers 3D Porous Copper Foil Production Value Market
Share (2021-2026)

Table 40. China Based Manufacturers 3D Porous Copper Foil Production, (2021-2026)
& (Tons)

Table 41. China Based Manufacturers 3D Porous Copper Foil Production Market Share
(2021-2026)

Table 42. Rest of World Based 3D Porous Copper Foil Manufacturers, Headquarters
and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers 3D Porous Copper Foil Production Value,
(2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers 3D Porous Copper Foil Production Value
Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers 3D Porous Copper Foil Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers 3D Porous Copper Foil Production Market Share (2021-2026)

Table 47. World 3D Porous Copper Foil Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World 3D Porous Copper Foil Production by Type (2021-2026) & (Tons)

Table 49. World 3D Porous Copper Foil Production by Type (2027-2032) & (Tons)

Table 50. World 3D Porous Copper Foil Production Value by Type (2021-2026) & (USD Million)

Table 51. World 3D Porous Copper Foil Production Value by Type (2027-2032) & (USD Million)

Table 52. World 3D Porous Copper Foil Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World 3D Porous Copper Foil Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World 3D Porous Copper Foil Production Value by Porosity Rate, (USD Million), 2021 & 2025 & 2032

Table 55. World 3D Porous Copper Foil Production by Porosity Rate (2021-2026) & (Tons)

Table 56. World 3D Porous Copper Foil Production by Porosity Rate (2027-2032) & (Tons)

Table 57. World 3D Porous Copper Foil Production Value by Porosity Rate (2021-2026) & (USD Million)

Table 58. World 3D Porous Copper Foil Production Value by Porosity Rate (2027-2032) & (USD Million)

Table 59. World 3D Porous Copper Foil Average Price by Porosity Rate (2021-2026) & (US\$/Ton)

Table 60. World 3D Porous Copper Foil Average Price by Porosity Rate (2027-2032) & (US\$/Ton)

Table 61. World 3D Porous Copper Foil Production Value by Surface Treatment, (USD Million), 2021 & 2025 & 2032

Table 62. World 3D Porous Copper Foil Production by Surface Treatment (2021-2026) & (Tons)

Table 63. World 3D Porous Copper Foil Production by Surface Treatment (2027-2032) & (Tons)

Table 64. World 3D Porous Copper Foil Production Value by Surface Treatment (2021-2026) & (USD Million)

Table 65. World 3D Porous Copper Foil Production Value by Surface Treatment

(2027-2032) & (USD Million)

Table 66. World 3D Porous Copper Foil Average Price by Surface Treatment
(2021-2026) & (US\$/Ton)

Table 67. World 3D Porous Copper Foil Average Price by Surface Treatment
(2027-2032) & (US\$/Ton)

Table 68. World 3D Porous Copper Foil Production Value by Application, (USD Million),
2021 & 2025 & 2032

Table 69. World 3D Porous Copper Foil Production by Application (2021-2026) & (Tons)

Table 70. World 3D Porous Copper Foil Production by Application (2027-2032) & (Tons)

Table 71. World 3D Porous Copper Foil Production Value by Application (2021-2026) &
(USD Million)

Table 72. World 3D Porous Copper Foil Production Value by Application (2027-2032) &
(USD Million)

Table 73. World 3D Porous Copper Foil Average Price by Application (2021-2026) &
(US\$/Ton)

Table 74. World 3D Porous Copper Foil Average Price by Application (2027-2032) &
(US\$/Ton)

Table 75. Nuode New Materials Basic Information, Manufacturing Base and
Competitors

Table 76. Nuode New Materials Major Business

Table 77. Nuode New Materials 3D Porous Copper Foil Product and Services

Table 78. Nuode New Materials 3D Porous Copper Foil Production (Tons), Price
(US\$/Ton), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 79. Nuode New Materials Recent Developments/Updates

Table 80. Nuode New Materials Competitive Strengths & Weaknesses

Table 81. Jiayuan Technology Basic Information, Manufacturing Base and Competitors

Table 82. Jiayuan Technology Major Business

Table 83. Jiayuan Technology 3D Porous Copper Foil Product and Services

Table 84. Jiayuan Technology 3D Porous Copper Foil Production (Tons), Price
(US\$/Ton), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 85. Jiayuan Technology Recent Developments/Updates

Table 86. Jiayuan Technology Competitive Strengths & Weaknesses

Table 87. Defu Technology Basic Information, Manufacturing Base and Competitors

Table 88. Defu Technology Major Business

Table 89. Defu Technology 3D Porous Copper Foil Product and Services

Table 90. Defu Technology 3D Porous Copper Foil Production (Tons), Price (US\$/Ton),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Defu Technology Recent Developments/Updates
Table 92. Defu Technology Competitive Strengths & Weaknesses
Table 93. Zhongyi Technology Basic Information, Manufacturing Base and Competitors
Table 94. Zhongyi Technology Major Business
Table 95. Zhongyi Technology 3D Porous Copper Foil Product and Services
Table 96. Zhongyi Technology 3D Porous Copper Foil Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Zhongyi Technology Recent Developments/Updates
Table 98. Zhongyi Technology Competitive Strengths & Weaknesses
Table 99. Tongguan Copper Foil Basic Information, Manufacturing Base and Competitors
Table 100. Tongguan Copper Foil Major Business
Table 101. Tongguan Copper Foil 3D Porous Copper Foil Product and Services
Table 102. Tongguan Copper Foil 3D Porous Copper Foil Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Tongguan Copper Foil Recent Developments/Updates
Table 104. Tongguan Copper Foil Competitive Strengths & Weaknesses
Table 105. Mitsui Kinzoku Basic Information, Manufacturing Base and Competitors
Table 106. Mitsui Kinzoku Major Business
Table 107. Mitsui Kinzoku 3D Porous Copper Foil Product and Services
Table 108. Mitsui Kinzoku 3D Porous Copper Foil Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Mitsui Kinzoku Recent Developments/Updates
Table 110. Mitsui Kinzoku Competitive Strengths & Weaknesses
Table 111. Furukawa Electric Basic Information, Manufacturing Base and Competitors
Table 112. Furukawa Electric Major Business
Table 113. Furukawa Electric 3D Porous Copper Foil Product and Services
Table 114. Furukawa Electric 3D Porous Copper Foil Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Furukawa Electric Recent Developments/Updates
Table 116. Furukawa Electric Competitive Strengths & Weaknesses
Table 117. SK Nexilis Basic Information, Manufacturing Base and Competitors
Table 118. SK Nexilis Major Business
Table 119. SK Nexilis 3D Porous Copper Foil Product and Services
Table 120. SK Nexilis 3D Porous Copper Foil Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. SK Nexilis Recent Developments/Updates
Table 122. SK Nexilis Competitive Strengths & Weaknesses
Table 123. Circuit Foil Basic Information, Manufacturing Base and Competitors
Table 124. Circuit Foil Major Business
Table 125. Circuit Foil 3D Porous Copper Foil Product and Services
Table 126. Circuit Foil 3D Porous Copper Foil Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. Circuit Foil Recent Developments/Updates
Table 128. Circuit Foil Competitive Strengths & Weaknesses
Table 129. Global Key Players of 3D Porous Copper Foil Upstream (Raw Materials)
Table 130. Global 3D Porous Copper Foil Typical Customers
Table 131. 3D Porous Copper Foil Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. 3D Porous Copper Foil Picture

Figure 2. World 3D Porous Copper Foil Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World 3D Porous Copper Foil Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World 3D Porous Copper Foil Production (2021-2032) & (Tons)

Figure 5. World 3D Porous Copper Foil Average Price (2021-2032) & (US\$/Ton)

Figure 6. World 3D Porous Copper Foil Production Value Market Share by Region (2021-2032)

Figure 7. World 3D Porous Copper Foil Production Market Share by Region (2021-2032)

Figure 8. North America 3D Porous Copper Foil Production (2021-2032) & (Tons)

Figure 9. Europe 3D Porous Copper Foil Production (2021-2032) & (Tons)

Figure 10. China 3D Porous Copper Foil Production (2021-2032) & (Tons)

Figure 11. Japan 3D Porous Copper Foil Production (2021-2032) & (Tons)

Figure 12. India 3D Porous Copper Foil Production (2021-2032) & (Tons)

Figure 13. Southeast Asia 3D Porous Copper Foil Production (2021-2032) & (Tons)

Figure 14. 3D Porous Copper Foil Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World 3D Porous Copper Foil Consumption (2021-2032) & (Tons)

Figure 17. World 3D Porous Copper Foil Consumption Market Share by Region (2021-2032)

Figure 18. United States 3D Porous Copper Foil Consumption (2021-2032) & (Tons)

Figure 19. China 3D Porous Copper Foil Consumption (2021-2032) & (Tons)

Figure 20. Europe 3D Porous Copper Foil Consumption (2021-2032) & (Tons)

Figure 21. Japan 3D Porous Copper Foil Consumption (2021-2032) & (Tons)

Figure 22. South Korea 3D Porous Copper Foil Consumption (2021-2032) & (Tons)

Figure 23. ASEAN 3D Porous Copper Foil Consumption (2021-2032) & (Tons)

Figure 24. India 3D Porous Copper Foil Consumption (2021-2032) & (Tons)

Figure 25. Producer Shipments of 3D Porous Copper Foil by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for 3D Porous Copper Foil Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for 3D Porous Copper Foil Markets in 2025

Figure 28. United States VS China: 3D Porous Copper Foil Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: 3D Porous Copper Foil Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: 3D Porous Copper Foil Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers 3D Porous Copper Foil Production Market Share 2025

Figure 32. China Based Manufacturers 3D Porous Copper Foil Production Market Share 2025

Figure 33. Rest of World Based Manufacturers 3D Porous Copper Foil Production Market Share 2025

Figure 34. World 3D Porous Copper Foil Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World 3D Porous Copper Foil Production Value Market Share by Type in 2025

Figure 36. ?6?m

Figure 37. 6-12?m

Figure 38. World 3D Porous Copper Foil Production Market Share by Type (2021-2032)

Figure 39. World 3D Porous Copper Foil Production Value Market Share by Type (2021-2032)

Figure 40. World 3D Porous Copper Foil Average Price by Type (2021-2032) & (US\$/Ton)

Figure 41. World 3D Porous Copper Foil Production Value by Porosity Rate, (USD Million), 2021 & 2025 & 2032

Figure 42. World 3D Porous Copper Foil Production Value Market Share by Porosity Rate in 2025

Figure 43. 30%?Porosity Rate?50%

Figure 44. Specific Capacity?50%

Figure 45. Others

Figure 46. World 3D Porous Copper Foil Production Market Share by Porosity Rate (2021-2032)

Figure 47. World 3D Porous Copper Foil Production Value Market Share by Porosity Rate (2021-2032)

Figure 48. World 3D Porous Copper Foil Average Price by Porosity Rate (2021-2032) & (US\$/Ton)

Figure 49. World 3D Porous Copper Foil Production Value by Surface Treatment, (USD Million), 2021 & 2025 & 2032

Figure 50. World 3D Porous Copper Foil Production Value Market Share by Surface

Treatment in 2025

Figure 51. Bare Copper Microporous Copper Foil

Figure 52. Nickel-plated Microporous Copper Foil

Figure 53. Others

Figure 54. World 3D Porous Copper Foil Production Market Share by Surface Treatment (2021-2032)

Figure 55. World 3D Porous Copper Foil Production Value Market Share by Surface Treatment (2021-2032)

Figure 56. World 3D Porous Copper Foil Average Price by Surface Treatment (2021-2032) & (US\$/Ton)

Figure 57. World 3D Porous Copper Foil Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World 3D Porous Copper Foil Production Value Market Share by Application in 2025

Figure 59. Power Battery

Figure 60. Consumer Battery

Figure 61. Others

Figure 62. World 3D Porous Copper Foil Production Market Share by Application (2021-2032)

Figure 63. World 3D Porous Copper Foil Production Value Market Share by Application (2021-2032)

Figure 64. World 3D Porous Copper Foil Average Price by Application (2021-2032) & (US\$/Ton)

Figure 65. 3D Porous Copper Foil Industry Chain

Figure 66. 3D Porous Copper Foil Procurement Model

Figure 67. 3D Porous Copper Foil Sales Model

Figure 68. 3D Porous Copper Foil Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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