

Global 3D Porous Copper Current Collector 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 Current Collector 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 Current Collector refers to an advanced lithium battery current collector material engineered with a three-dimensional porous copper framework to improve electrolyte transport, electron conduction efficiency, and electrode interface contact within high-energy-density battery systems. By forming a multidirectional porous conductive network, the material reduces interfacial resistance, enhances ion diffusion pathways, and maintains structural flexibility and mechanical stability during repeated charge-discharge cycles. Compared with conventional copper foil current collectors, it offers advantages in lightweight structure, electrochemical performance, and compatibility with next-generation battery technologies such as solid-state batteries and advanced energy storage devices. 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 tons, 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 porous structure integration, pore structure regulation, and surface treatment processes to achieve structural integrity and electrochemical consistency. The downstream is mainly driven by power batteries

and consumer batteries, with key customers including CATL, BYD, LG Energy Solution, Panasonic, and Samsung SDI.

3D Porous Copper Current Collector will gain more attention as power batteries and consumer batteries seek lower interfacial resistance, better electrolyte penetration, and lighter current collector structures. Its three-dimensional porous network can improve ion transport and electron conduction, making it more suitable for solid-state batteries, high-rate cells, and advanced energy storage devices. Future development will be driven by high-energy-density battery designs, lightweight cell structures, and demand for more efficient electrode interfaces, with product upgrades focusing on pore uniformity, mechanical stability, copper usage reduction, and scalable electrochemical deposition processes.

This report is a detailed and comprehensive analysis for global 3D Porous Copper Current Collector 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 Current Collector market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global 3D Porous Copper Current Collector 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 Current Collector 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 Current Collector 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:

Global 3D Porous Copper Current Collector Market 2026 by Manufacturers, Regions, Type and Application, Forecas...

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

To assess the growth potential for 3D Porous Copper Current Collector

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 Current Collector 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 Londian Wason (China), Jiangxi Huachuang New Materials (China), Nuode New Materials (China), Jiayuan Technology (China), Defu Technology (China), Zhongyi Technology (China), Tongguan Copper Foil (China), Mitsui Kinzoku (Japan), Furukawa Electric (Japan), SK Nexilis (South Korea), etc.

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

Market Segmentation

3D Porous Copper Current Collector 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?m

6-12?m

Market segment by Porosity Rate

30%?Porosity Rate?50%

Specific Capacity?50%

Others

Market segment by Surface Treatment

Bare Copper

Nickel-plated

Others

Market segment by Application

Power Battery

Consumer Battery

Others

Major players covered

Londian Wason (China)

Jiangxi Huachuang New Materials (China)

Nuode New Materials (China)

Jiayuan Technology (China)

Defu Technology (China)

Zhongyi Technology (China)

Tongguan Copper Foil (China)

Mitsui Kinzoku (Japan)

Furukawa Electric (Japan)

SK Nexilis (South Korea)

Advanced Copper Foil (USA)

Avocet Electrofoils (UK)

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 Current Collector product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the 3D Porous Copper Current Collector 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 Current Collector 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 Current Collector.

Chapter 14 and 15, to describe 3D Porous Copper Current Collector 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 Current Collector 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 Current Collector 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 Current Collector Consumption Value by Surface Treatment: 2021 Versus 2025 Versus 2032

1.5.2 Bare Copper

1.5.3 Nickel-plated

1.5.4 Others

1.6 Market Analysis by Application

1.6.1 Overview: Global 3D Porous Copper Current Collector 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 Current Collector Market Size & Forecast

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

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

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

2 MANUFACTURERS PROFILES

2.1 Londian Wason (China)

2.1.1 Londian Wason (China) Details

- 2.1.2 Londian Wason (China) Major Business
- 2.1.3 Londian Wason (China) 3D Porous Copper Current Collector Product and Services
- 2.1.4 Londian Wason (China) 3D Porous Copper Current Collector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 Londian Wason (China) Recent Developments/Updates
- 2.2 Jiangxi Huachuang New Materials (China)
 - 2.2.1 Jiangxi Huachuang New Materials (China) Details
 - 2.2.2 Jiangxi Huachuang New Materials (China) Major Business
 - 2.2.3 Jiangxi Huachuang New Materials (China) 3D Porous Copper Current Collector Product and Services
 - 2.2.4 Jiangxi Huachuang New Materials (China) 3D Porous Copper Current Collector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.2.5 Jiangxi Huachuang New Materials (China) Recent Developments/Updates
- 2.3 Nuode New Materials (China)
 - 2.3.1 Nuode New Materials (China) Details
 - 2.3.2 Nuode New Materials (China) Major Business
 - 2.3.3 Nuode New Materials (China) 3D Porous Copper Current Collector Product and Services
 - 2.3.4 Nuode New Materials (China) 3D Porous Copper Current Collector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.3.5 Nuode New Materials (China) Recent Developments/Updates
- 2.4 Jiayuan Technology (China)
 - 2.4.1 Jiayuan Technology (China) Details
 - 2.4.2 Jiayuan Technology (China) Major Business
 - 2.4.3 Jiayuan Technology (China) 3D Porous Copper Current Collector Product and Services
 - 2.4.4 Jiayuan Technology (China) 3D Porous Copper Current Collector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.4.5 Jiayuan Technology (China) Recent Developments/Updates
- 2.5 Defu Technology (China)
 - 2.5.1 Defu Technology (China) Details
 - 2.5.2 Defu Technology (China) Major Business
 - 2.5.3 Defu Technology (China) 3D Porous Copper Current Collector Product and Services
 - 2.5.4 Defu Technology (China) 3D Porous Copper Current Collector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 Defu Technology (China) Recent Developments/Updates
- 2.6 Zhongyi Technology (China)

- 2.6.1 Zhongyi Technology (China) Details
- 2.6.2 Zhongyi Technology (China) Major Business
- 2.6.3 Zhongyi Technology (China) 3D Porous Copper Current Collector Product and Services
- 2.6.4 Zhongyi Technology (China) 3D Porous Copper Current Collector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.6.5 Zhongyi Technology (China) Recent Developments/Updates
- 2.7 Tongguan Copper Foil (China)
 - 2.7.1 Tongguan Copper Foil (China) Details
 - 2.7.2 Tongguan Copper Foil (China) Major Business
 - 2.7.3 Tongguan Copper Foil (China) 3D Porous Copper Current Collector Product and Services
 - 2.7.4 Tongguan Copper Foil (China) 3D Porous Copper Current Collector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 Tongguan Copper Foil (China) Recent Developments/Updates
- 2.8 Mitsui Kinzoku (Japan)
 - 2.8.1 Mitsui Kinzoku (Japan) Details
 - 2.8.2 Mitsui Kinzoku (Japan) Major Business
 - 2.8.3 Mitsui Kinzoku (Japan) 3D Porous Copper Current Collector Product and Services
 - 2.8.4 Mitsui Kinzoku (Japan) 3D Porous Copper Current Collector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Mitsui Kinzoku (Japan) Recent Developments/Updates
- 2.9 Furukawa Electric (Japan)
 - 2.9.1 Furukawa Electric (Japan) Details
 - 2.9.2 Furukawa Electric (Japan) Major Business
 - 2.9.3 Furukawa Electric (Japan) 3D Porous Copper Current Collector Product and Services
 - 2.9.4 Furukawa Electric (Japan) 3D Porous Copper Current Collector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 Furukawa Electric (Japan) Recent Developments/Updates
- 2.10 SK Nexilis (South Korea)
 - 2.10.1 SK Nexilis (South Korea) Details
 - 2.10.2 SK Nexilis (South Korea) Major Business
 - 2.10.3 SK Nexilis (South Korea) 3D Porous Copper Current Collector Product and Services
 - 2.10.4 SK Nexilis (South Korea) 3D Porous Copper Current Collector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 SK Nexilis (South Korea) Recent Developments/Updates

2.11 Advanced Copper Foil (USA)

2.11.1 Advanced Copper Foil (USA) Details

2.11.2 Advanced Copper Foil (USA) Major Business

2.11.3 Advanced Copper Foil (USA) 3D Porous Copper Current Collector Product and Services

2.11.4 Advanced Copper Foil (USA) 3D Porous Copper Current Collector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 Advanced Copper Foil (USA) Recent Developments/Updates

2.12 Avocet Electrofoils (UK)

2.12.1 Avocet Electrofoils (UK) Details

2.12.2 Avocet Electrofoils (UK) Major Business

2.12.3 Avocet Electrofoils (UK) 3D Porous Copper Current Collector Product and Services

2.12.4 Avocet Electrofoils (UK) 3D Porous Copper Current Collector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 Avocet Electrofoils (UK) Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: 3D POROUS COPPER CURRENT COLLECTOR BY MANUFACTURER

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

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

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

3.4 Market Share Analysis (2025)

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

3.4.2 Top 3 3D Porous Copper Current Collector Manufacturer Market Share in 2025

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

3.5 3D Porous Copper Current Collector Market: Overall Company Footprint Analysis

3.5.1 3D Porous Copper Current Collector Market: Region Footprint

3.5.2 3D Porous Copper Current Collector Market: Company Product Type Footprint

3.5.3 3D Porous Copper Current Collector 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 Current Collector Market Size by Region

4.1.1 Global 3D Porous Copper Current Collector Sales Quantity by Region
(2021-2032)

4.1.2 Global 3D Porous Copper Current Collector Consumption Value by Region
(2021-2032)

4.1.3 Global 3D Porous Copper Current Collector Average Price by Region
(2021-2032)

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

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

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

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

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

5 MARKET SEGMENT BY TYPE

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

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

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

6 MARKET SEGMENT BY APPLICATION

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

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

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

7 NORTH AMERICA

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

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

7.3 North America 3D Porous Copper Current Collector Market Size by Country

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

7.3.2 North America 3D Porous Copper Current Collector 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 Current Collector Sales Quantity by Type (2021-2032)

8.2 Europe 3D Porous Copper Current Collector Sales Quantity by Application (2021-2032)

8.3 Europe 3D Porous Copper Current Collector Market Size by Country

8.3.1 Europe 3D Porous Copper Current Collector Sales Quantity by Country (2021-2032)

8.3.2 Europe 3D Porous Copper Current Collector 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 Current Collector Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific 3D Porous Copper Current Collector Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific 3D Porous Copper Current Collector Market Size by Region

9.3.1 Asia-Pacific 3D Porous Copper Current Collector Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific 3D Porous Copper Current Collector 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 Current Collector Sales Quantity by Type (2021-2032)
- 10.2 South America 3D Porous Copper Current Collector Sales Quantity by Application (2021-2032)
- 10.3 South America 3D Porous Copper Current Collector Market Size by Country
 - 10.3.1 South America 3D Porous Copper Current Collector Sales Quantity by Country (2021-2032)
 - 10.3.2 South America 3D Porous Copper Current Collector 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 Current Collector Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa 3D Porous Copper Current Collector Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa 3D Porous Copper Current Collector Market Size by Country
 - 11.3.1 Middle East & Africa 3D Porous Copper Current Collector Sales Quantity by Country (2021-2032)
 - 11.3.2 Middle East & Africa 3D Porous Copper Current Collector 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 Current Collector Market Drivers
- 12.2 3D Porous Copper Current Collector Market Restraints
- 12.3 3D Porous Copper Current Collector 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 Current Collector and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of 3D Porous Copper Current Collector
- 13.3 3D Porous Copper Current Collector 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 Current Collector Typical Distributors
- 14.3 3D Porous Copper Current Collector 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 Current Collector Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 2. Global 3D Porous Copper Current Collector Consumption Value by Porosity Rate, (USD Million), 2021 & 2025 & 2032
- Table 3. Global 3D Porous Copper Current Collector Consumption Value by Surface Treatment, (USD Million), 2021 & 2025 & 2032
- Table 4. Global 3D Porous Copper Current Collector Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 5. Londian Wason (China) Basic Information, Manufacturing Base and Competitors
- Table 6. Londian Wason (China) Major Business
- Table 7. Londian Wason (China) 3D Porous Copper Current Collector Product and Services
- Table 8. Londian Wason (China) 3D Porous Copper Current Collector Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 9. Londian Wason (China) Recent Developments/Updates
- Table 10. Jiangxi Huachuang New Materials (China) Basic Information, Manufacturing Base and Competitors
- Table 11. Jiangxi Huachuang New Materials (China) Major Business
- Table 12. Jiangxi Huachuang New Materials (China) 3D Porous Copper Current Collector Product and Services
- Table 13. Jiangxi Huachuang New Materials (China) 3D Porous Copper Current Collector Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 14. Jiangxi Huachuang New Materials (China) Recent Developments/Updates
- Table 15. Nuode New Materials (China) Basic Information, Manufacturing Base and Competitors
- Table 16. Nuode New Materials (China) Major Business
- Table 17. Nuode New Materials (China) 3D Porous Copper Current Collector Product and Services
- Table 18. Nuode New Materials (China) 3D Porous Copper Current Collector Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 19. Nuode New Materials (China) Recent Developments/Updates

Table 20. Jiayuan Technology (China) Basic Information, Manufacturing Base and Competitors

Table 21. Jiayuan Technology (China) Major Business

Table 22. Jiayuan Technology (China) 3D Porous Copper Current Collector Product and Services

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

Table 24. Jiayuan Technology (China) Recent Developments/Updates

Table 25. Defu Technology (China) Basic Information, Manufacturing Base and Competitors

Table 26. Defu Technology (China) Major Business

Table 27. Defu Technology (China) 3D Porous Copper Current Collector Product and Services

Table 28. Defu Technology (China) 3D Porous Copper Current Collector Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Defu Technology (China) Recent Developments/Updates

Table 30. Zhongyi Technology (China) Basic Information, Manufacturing Base and Competitors

Table 31. Zhongyi Technology (China) Major Business

Table 32. Zhongyi Technology (China) 3D Porous Copper Current Collector Product and Services

Table 33. Zhongyi Technology (China) 3D Porous Copper Current Collector Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Zhongyi Technology (China) Recent Developments/Updates

Table 35. Tongguan Copper Foil (China) Basic Information, Manufacturing Base and Competitors

Table 36. Tongguan Copper Foil (China) Major Business

Table 37. Tongguan Copper Foil (China) 3D Porous Copper Current Collector Product and Services

Table 38. Tongguan Copper Foil (China) 3D Porous Copper Current Collector Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Tongguan Copper Foil (China) Recent Developments/Updates

Table 40. Mitsui Kinzoku (Japan) Basic Information, Manufacturing Base and Competitors

Table 41. Mitsui Kinzoku (Japan) Major Business

Table 42. Mitsui Kinzoku (Japan) 3D Porous Copper Current Collector Product and Services

Table 43. Mitsui Kinzoku (Japan) 3D Porous Copper Current Collector Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Mitsui Kinzoku (Japan) Recent Developments/Updates

Table 45. Furukawa Electric (Japan) Basic Information, Manufacturing Base and Competitors

Table 46. Furukawa Electric (Japan) Major Business

Table 47. Furukawa Electric (Japan) 3D Porous Copper Current Collector Product and Services

Table 48. Furukawa Electric (Japan) 3D Porous Copper Current Collector Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Furukawa Electric (Japan) Recent Developments/Updates

Table 50. SK Nexilis (South Korea) Basic Information, Manufacturing Base and Competitors

Table 51. SK Nexilis (South Korea) Major Business

Table 52. SK Nexilis (South Korea) 3D Porous Copper Current Collector Product and Services

Table 53. SK Nexilis (South Korea) 3D Porous Copper Current Collector Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. SK Nexilis (South Korea) Recent Developments/Updates

Table 55. Advanced Copper Foil (USA) Basic Information, Manufacturing Base and Competitors

Table 56. Advanced Copper Foil (USA) Major Business

Table 57. Advanced Copper Foil (USA) 3D Porous Copper Current Collector Product and Services

Table 58. Advanced Copper Foil (USA) 3D Porous Copper Current Collector Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. Advanced Copper Foil (USA) Recent Developments/Updates

Table 60. Avocet Electrofoils (UK) Basic Information, Manufacturing Base and Competitors

Table 61. Avocet Electrofoils (UK) Major Business

Table 62. Avocet Electrofoils (UK) 3D Porous Copper Current Collector Product and Services

Table 63. Avocet Electrofoils (UK) 3D Porous Copper Current Collector Sales Quantity

(Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. Avocet Electrofoils (UK) Recent Developments/Updates

Table 65. Global 3D Porous Copper Current Collector Sales Quantity by Manufacturer (2021-2026) & (Tons)

Table 66. Global 3D Porous Copper Current Collector Revenue by Manufacturer (2021-2026) & (USD Million)

Table 67. Global 3D Porous Copper Current Collector Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 68. Market Position of Manufacturers in 3D Porous Copper Current Collector, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 69. Head Office and 3D Porous Copper Current Collector Production Site of Key Manufacturer

Table 70. 3D Porous Copper Current Collector Market: Company Product Type Footprint

Table 71. 3D Porous Copper Current Collector Market: Company Product Application Footprint

Table 72. 3D Porous Copper Current Collector New Market Entrants and Barriers to Market Entry

Table 73. 3D Porous Copper Current Collector Mergers, Acquisition, Agreements, and Collaborations

Table 74. Global 3D Porous Copper Current Collector Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 75. Global 3D Porous Copper Current Collector Sales Quantity by Region (2021-2026) & (Tons)

Table 76. Global 3D Porous Copper Current Collector Sales Quantity by Region (2027-2032) & (Tons)

Table 77. Global 3D Porous Copper Current Collector Consumption Value by Region (2021-2026) & (USD Million)

Table 78. Global 3D Porous Copper Current Collector Consumption Value by Region (2027-2032) & (USD Million)

Table 79. Global 3D Porous Copper Current Collector Average Price by Region (2021-2026) & (US\$/Ton)

Table 80. Global 3D Porous Copper Current Collector Average Price by Region (2027-2032) & (US\$/Ton)

Table 81. Global 3D Porous Copper Current Collector Sales Quantity by Type (2021-2026) & (Tons)

Table 82. Global 3D Porous Copper Current Collector Sales Quantity by Type (2027-2032) & (Tons)

Table 83. Global 3D Porous Copper Current Collector Consumption Value by Type (2021-2026) & (USD Million)

Table 84. Global 3D Porous Copper Current Collector Consumption Value by Type (2027-2032) & (USD Million)

Table 85. Global 3D Porous Copper Current Collector Average Price by Type (2021-2026) & (US\$/Ton)

Table 86. Global 3D Porous Copper Current Collector Average Price by Type (2027-2032) & (US\$/Ton)

Table 87. Global 3D Porous Copper Current Collector Sales Quantity by Application (2021-2026) & (Tons)

Table 88. Global 3D Porous Copper Current Collector Sales Quantity by Application (2027-2032) & (Tons)

Table 89. Global 3D Porous Copper Current Collector Consumption Value by Application (2021-2026) & (USD Million)

Table 90. Global 3D Porous Copper Current Collector Consumption Value by Application (2027-2032) & (USD Million)

Table 91. Global 3D Porous Copper Current Collector Average Price by Application (2021-2026) & (US\$/Ton)

Table 92. Global 3D Porous Copper Current Collector Average Price by Application (2027-2032) & (US\$/Ton)

Table 93. North America 3D Porous Copper Current Collector Sales Quantity by Type (2021-2026) & (Tons)

Table 94. North America 3D Porous Copper Current Collector Sales Quantity by Type (2027-2032) & (Tons)

Table 95. North America 3D Porous Copper Current Collector Sales Quantity by Application (2021-2026) & (Tons)

Table 96. North America 3D Porous Copper Current Collector Sales Quantity by Application (2027-2032) & (Tons)

Table 97. North America 3D Porous Copper Current Collector Sales Quantity by Country (2021-2026) & (Tons)

Table 98. North America 3D Porous Copper Current Collector Sales Quantity by Country (2027-2032) & (Tons)

Table 99. North America 3D Porous Copper Current Collector Consumption Value by Country (2021-2026) & (USD Million)

Table 100. North America 3D Porous Copper Current Collector Consumption Value by Country (2027-2032) & (USD Million)

Table 101. Europe 3D Porous Copper Current Collector Sales Quantity by Type (2021-2026) & (Tons)

Table 102. Europe 3D Porous Copper Current Collector Sales Quantity by Type

(2027-2032) & (Tons)

Table 103. Europe 3D Porous Copper Current Collector Sales Quantity by Application (2021-2026) & (Tons)

Table 104. Europe 3D Porous Copper Current Collector Sales Quantity by Application (2027-2032) & (Tons)

Table 105. Europe 3D Porous Copper Current Collector Sales Quantity by Country (2021-2026) & (Tons)

Table 106. Europe 3D Porous Copper Current Collector Sales Quantity by Country (2027-2032) & (Tons)

Table 107. Europe 3D Porous Copper Current Collector Consumption Value by Country (2021-2026) & (USD Million)

Table 108. Europe 3D Porous Copper Current Collector Consumption Value by Country (2027-2032) & (USD Million)

Table 109. Asia-Pacific 3D Porous Copper Current Collector Sales Quantity by Type (2021-2026) & (Tons)

Table 110. Asia-Pacific 3D Porous Copper Current Collector Sales Quantity by Type (2027-2032) & (Tons)

Table 111. Asia-Pacific 3D Porous Copper Current Collector Sales Quantity by Application (2021-2026) & (Tons)

Table 112. Asia-Pacific 3D Porous Copper Current Collector Sales Quantity by Application (2027-2032) & (Tons)

Table 113. Asia-Pacific 3D Porous Copper Current Collector Sales Quantity by Region (2021-2026) & (Tons)

Table 114. Asia-Pacific 3D Porous Copper Current Collector Sales Quantity by Region (2027-2032) & (Tons)

Table 115. Asia-Pacific 3D Porous Copper Current Collector Consumption Value by Region (2021-2026) & (USD Million)

Table 116. Asia-Pacific 3D Porous Copper Current Collector Consumption Value by Region (2027-2032) & (USD Million)

Table 117. South America 3D Porous Copper Current Collector Sales Quantity by Type (2021-2026) & (Tons)

Table 118. South America 3D Porous Copper Current Collector Sales Quantity by Type (2027-2032) & (Tons)

Table 119. South America 3D Porous Copper Current Collector Sales Quantity by Application (2021-2026) & (Tons)

Table 120. South America 3D Porous Copper Current Collector Sales Quantity by Application (2027-2032) & (Tons)

Table 121. South America 3D Porous Copper Current Collector Sales Quantity by Country (2021-2026) & (Tons)

Table 122. South America 3D Porous Copper Current Collector Sales Quantity by Country (2027-2032) & (Tons)

Table 123. South America 3D Porous Copper Current Collector Consumption Value by Country (2021-2026) & (USD Million)

Table 124. South America 3D Porous Copper Current Collector Consumption Value by Country (2027-2032) & (USD Million)

Table 125. Middle East & Africa 3D Porous Copper Current Collector Sales Quantity by Type (2021-2026) & (Tons)

Table 126. Middle East & Africa 3D Porous Copper Current Collector Sales Quantity by Type (2027-2032) & (Tons)

Table 127. Middle East & Africa 3D Porous Copper Current Collector Sales Quantity by Application (2021-2026) & (Tons)

Table 128. Middle East & Africa 3D Porous Copper Current Collector Sales Quantity by Application (2027-2032) & (Tons)

Table 129. Middle East & Africa 3D Porous Copper Current Collector Sales Quantity by Country (2021-2026) & (Tons)

Table 130. Middle East & Africa 3D Porous Copper Current Collector Sales Quantity by Country (2027-2032) & (Tons)

Table 131. Middle East & Africa 3D Porous Copper Current Collector Consumption Value by Country (2021-2026) & (USD Million)

Table 132. Middle East & Africa 3D Porous Copper Current Collector Consumption Value by Country (2027-2032) & (USD Million)

Table 133. 3D Porous Copper Current Collector Raw Material

Table 134. Key Manufacturers of 3D Porous Copper Current Collector Raw Materials

Table 135. 3D Porous Copper Current Collector Typical Distributors

Table 136. 3D Porous Copper Current Collector Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. 3D Porous Copper Current Collector Picture
- Figure 2. Global 3D Porous Copper Current Collector Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global 3D Porous Copper Current Collector Revenue Market Share by Type in 2025
- Figure 4. 6-12µm Examples
- Figure 5. 6-12µm Examples
- Figure 6. Global 3D Porous Copper Current Collector Revenue by Porosity Rate, (USD Million), 2021 & 2025 & 2032
- Figure 7. Global 3D Porous Copper Current Collector Revenue Market Share by Porosity Rate in 2025
- Figure 8. 30% Porosity Rate 50% Examples
- Figure 9. Specific Capacity 50% Examples
- Figure 10. Others Examples
- Figure 11. Global 3D Porous Copper Current Collector Revenue by Surface Treatment, (USD Million), 2021 & 2025 & 2032
- Figure 12. Global 3D Porous Copper Current Collector Revenue Market Share by Surface Treatment in 2025
- Figure 13. Bare Copper Examples
- Figure 14. Nickel-plated Examples
- Figure 15. Others Examples
- Figure 16. Global 3D Porous Copper Current Collector Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 17. Global 3D Porous Copper Current Collector 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 Current Collector Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 22. Global 3D Porous Copper Current Collector Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 23. Global 3D Porous Copper Current Collector Sales Quantity (2021-2032) & (Tons)
- Figure 24. Global 3D Porous Copper Current Collector Price (2021-2032) & (US\$/Ton)

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

Figure 26. Global 3D Porous Copper Current Collector Revenue Market Share by Manufacturer in 2025

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Figure 44. North America 3D Porous Copper Current Collector Sales Quantity Market

Share by Application (2021-2032)

Figure 45. North America 3D Porous Copper Current Collector Sales Quantity Market

Share by Country (2021-2032)

Figure 46. North America 3D Porous Copper Current Collector Consumption Value

Market Share by Country (2021-2032)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Figure 83. 3D Porous Copper Current Collector Market Drivers

Figure 84. 3D Porous Copper Current Collector Market Restraints

Figure 85. 3D Porous Copper Current Collector Market Trends

Figure 86. Porters Five Forces Analysis

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

Figure 88. Manufacturing Process Analysis of 3D Porous Copper Current Collector

Figure 89. 3D Porous Copper Current Collector 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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