

Global 3D Porous Copper Foil for Power Battery 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 for Power Battery market size was valued at US\$ 87.46 million in 2025 and is forecast to a readjusted size of US\$ 931 million by 2032 with a CAGR of 40.0% during review period.

3D Porous Copper Foil for Power Battery refers to an advanced current collector material tailored for high-performance lithium-ion power battery systems, characterized by a three-dimensional interconnected porous architecture that enables enhanced electrolyte penetration and continuous ion transport pathways while maintaining robust electrical conductivity and mechanical stability. By constructing a spatial conductive framework, the material effectively improves electrode-electrolyte interfacial contact, reduces internal resistance, and enhances structural flexibility, thereby supporting higher energy density, superior fast-charging performance, and extended cycle life under demanding operating conditions. In 2025, the capacity utilization rate reached 45% and the average gross margin was approximately 28%. Production in 2025 totaled 3,025 ton, with an average price of 28,100 USD/ton. The upstream primarily consists of high-purity cathode copper and specialized pore-forming additives, with representative suppliers including Jiangxi Copper, Tongling Nonferrous Metals, Freeport-McMoRan, and Glencore. The midstream focuses on precision electrochemical deposition, three-dimensional pore structure regulation, and surface treatment to ensure uniform porosity and mechanical integrity. The downstream mainly serves passenger and commercial vehicle markets, with key customers including Tesla, BYD, Volkswagen, Toyota, and Ford.

This report is a detailed and comprehensive analysis for global 3D Porous Copper Foil

for Power Battery 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 for Power Battery market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global 3D Porous Copper Foil for Power Battery 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 for Power Battery 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 for Power Battery 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 for Power Battery

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 for Power Battery 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 for Power Battery 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 Microporous Copper Foil

Nickel-plated Microporous Copper Foil

Others

Market segment by Application

Passenger Cars

Commercial Vehicle

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 for Power Battery product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the 3D Porous Copper Foil for Power Battery 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 for Power Battery 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 for Power Battery 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 for Power Battery.

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

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