

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

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Abstracts

The global 3D Porous Copper Foil for Power Battery market size is expected to reach \$ 931 million by 2032, rising at a market growth of 40.0% CAGR during the forecast period (2026-2032).

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 studies the global 3D Porous Copper Foil for Power Battery production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 3D Porous Copper Foil for Power Battery 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 for Power Battery that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global 3D Porous Copper Foil for Power Battery 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 for Power Battery 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 for Power Battery Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

?6?m

6-12?m

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

30%?Porosity Rate?50%

Specific Capacity?50%

Others

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

Bare Copper Microporous Copper Foil

Nickel-plated Microporous Copper Foil

Others

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

Passenger Cars

Commercial Vehicle

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

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