

# Global Three-Dimensional Porous Composite Current Collectors Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Three-Dimensional Porous Composite Current Collectors market size is expected to reach \$ 64.66 million by 2032, rising at a market growth of 28.4% CAGR during the forecast period (2026-2032).

In 2025, the global sales area of 3D porous composite current collectors is projected to be approximately 1.6 million square meters, with an average price of around \$5.0 per square meter and total revenue of approximately \$8.0 million. 3D porous composite current collectors are battery current collection materials featuring a 3D continuous conductive network formed on a scaffold of porous metal, metal mesh, or lightweight polymer. This structure is achieved through processes such as electrodeposition, electroless plating, vacuum deposition, composite coating, or surface lithiophilic modification. These collectors serve to increase effective specific surface area, electrolyte wetting, and active material loading, while also reducing local current density and buffering volume changes in silicon-based or lithium-metal anodes. This category excludes traditional planar PET/PP "metal-polymer-metal" sandwich composite current collectors. Upstream sectors primarily include porous metal/fiber scaffolds, polymer substrates, copper/aluminum coating materials, vacuum and electroplating equipment, and surface modifiers; downstream sectors primarily include solid-state batteries, lithium-metal/anode-free batteries, silicon-anode batteries, high-rate lithium-ion batteries, and other electrochemical energy storage systems.

## Report Scope

This report studies the global Three-Dimensional Porous Composite Current Collectors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Three-Dimensional Porous Composite Current Collectors 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 Three-Dimensional Porous Composite Current Collectors that contribute to its increasing demand across many markets.

## Highlights and key features of the study

Global Three-Dimensional Porous Composite Current Collectors total production and demand, 2021-2032, (K Sqm)

Global Three-Dimensional Porous Composite Current Collectors total production value, 2021-2032, (USD Million)

Global Three-Dimensional Porous Composite Current Collectors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)

Global Three-Dimensional Porous Composite Current Collectors consumption by region & country, CAGR, 2021-2032 & (K Sqm)

U.S. VS China: Three-Dimensional Porous Composite Current Collectors domestic production, consumption, key domestic manufacturers and share

Global Three-Dimensional Porous Composite Current Collectors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sqm)

Global Three-Dimensional Porous Composite Current Collectors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

Global Three-Dimensional Porous Composite Current Collectors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global Three-Dimensional Porous Composite Current Collectors 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 Sumitomo Electric Industries, Ltd., Addionics Ltd., Hunan Corun New Energy Co., Ltd., Guangzhou Sanfu New Materials Technology Co., Ltd., Alantum Corporation, Recemat B.V., ERG Aerospace Corporation, Wuzhou HGP Advanced Materials Technology Co., Ltd., Suzhou Jiashide Foam Metal Co., Ltd., Fukuda Metal Foil & Powder Co., Ltd., 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 Three-Dimensional Porous Composite Current Collectors market

## **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sqm) and average price (US\$/Sq m) 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 Three-Dimensional Porous Composite Current Collectors Market, By Region:**

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## **Market Segmentation**

### **Global Three-Dimensional Porous Composite Current Collectors Market, Segmentation by Type:**

Porous Metal-Foam Composite Collectors

3D Mesh/Perforated Composite Collectors

Gradient-Porosity Composite Collectors

Polymer-Scaffold Metalized Collectors

### **Global Three-Dimensional Porous Composite Current Collectors Market, Segmentation by Pore Size:**

Fine Pore:  $\leq 100 \text{ }\mu\text{m}$

Medium Pore:  $>100\text{--}500 \text{ }\mu\text{m}$

Large Pore:  $>500\text{--}1,000 \text{ }\mu\text{m}$

### **Global Three-Dimensional Porous Composite Current Collectors Market, Segmentation by Functional Category:**

3D Copper Anode Collectors

3D Aluminum Cathode Collectors

3D Nickel/Alloy Collectors

Lithiophilic Surface-Modified Collectors

## **Global Three-Dimensional Porous Composite Current Collectors Market, Segmentation by Application:**

Lithium-Metal and Anode-Free Batteries

Silicon-Rich Anode Batteries

Solid-State Batteries

Fast-Charge and High-Power Li-Ion Batteries

Ni-Based Batteries and Supercapacitors

## **Companies Profiled:**

Sumitomo Electric Industries, Ltd.

Addionics Ltd.

Hunan Corun New Energy Co., Ltd.

Guangzhou Sanfu New Materials Technology Co., Ltd.

Alantum Corporation

Recemat B.V.

ERG Aerospace Corporation

Wuzhou HGP Advanced Materials Technology Co., Ltd.

Suzhou Jiashide Foam Metal Co., Ltd.

Fukuda Metal Foil & Powder Co., Ltd.

Mott Corporation

Porvair plc

Nippon Seisen Co., Ltd.

## **Key Questions Answered:**

1. How big is the global Three-Dimensional Porous Composite Current Collectors market?
2. What is the demand of the global Three-Dimensional Porous Composite Current Collectors market?
3. What is the year over year growth of the global Three-Dimensional Porous Composite Current Collectors market?
4. What is the production and production value of the global Three-Dimensional Porous Composite Current Collectors market?
5. Who are the key producers in the global Three-Dimensional Porous Composite Current Collectors market?
6. What are the growth factors driving the market demand?

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