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Global Porous Electrode Material Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Porous Electrode Material market size is expected to reach $ 47628 million by 2032, rising at a market growth of 14.5% CAGR during the forecast period (2026-2032).

Porous Electrode Material refers to electrode materials engineered with a controlled porous structure (micro-, meso-, or macropores) to enhance surface area, ion transport, and electrochemical reaction kinetics, widely used in batteries, supercapacitors, fuel cells, and electrolysis systems. The supply chain starts upstream with raw materials such as carbon precursors (petroleum coke, biomass), silicon, metals (nickel, cobalt, lithium, titanium), and chemical additives (binders, pore-forming agents, electrolytes). Midstream involves material synthesis and processing, including templating, etching, chemical vapor deposition (CVD), sol-gel methods, activation (physical/chemical), and coating to produce porous structures like activated carbon, porous silicon, metal foams, or composite electrodes. Downstream integrates these materials into electrode fabrication (slurry mixing, coating, calendaring) and cell assembly for end-use applications in electric vehicles, consumer electronics, grid energy storage, and industrial electrochemical systems, with performance optimization driven by energy density, cycle life, and conductivity requirements. In 2025, global Porous Electrode Material output was about 5.5 million tons with 7.5 million tons of capacity, average prices of USD 3,000?7,000 per ton, and gross margins around 27%.

This report studies the global Porous Electrode Material production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Porous Electrode Material and provides market size (US$ million) and Year-over-Year (YoY)

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Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Porous Electrode Material that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Porous Electrode Material total production and demand, 2021-2032, (Kilotons)
Global Porous Electrode Material total production value, 2021-2032, (USD Million)
Global Porous Electrode Material production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)
Global Porous Electrode Material consumption by region & country, CAGR, 2021-2032 & (Kilotons)
U.S. VS China: Porous Electrode Material domestic production, consumption, key domestic manufacturers and share
Global Porous Electrode Material production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)
Global Porous Electrode Material production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)
Global Porous Electrode Material production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Porous Electrode Material 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 Sila Nanotechnologies (USA), Amprius Technologies (USA), Group14 Technologies (USA), Nexeon Limited (UK), LeydenJar Technologies (Netherlands), OneD Battery Sciences (USA), NanoGraf Corporation (USA), Sicona Battery Technologies (Australia), Daejoo Electronic Materials (South Korea), BTR New Material Group (China), 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 Porous Electrode Material market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Kilotons) and average price (US$/Ton)

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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 Porous Electrode Material Market, By Region:

- United States
- China
- Europe
- Japan
- South Korea
- ASEAN
- India
- Rest of World

Global Porous Electrode Material Market, Segmentation by Type:

- Carbon-based Material
- Silicon-based Material
- Metal-based Material
- Polymer-based Material

Global Porous Electrode Material Market, Segmentation by Pore Structure:

- Microporous (50 nm)
- Hierarchical Porous

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Global Porous Electrode Material Market, Segmentation by Application:

- Electric Vehicle
- Consumer Electronic
- Energy Storage
- Aerospace & Defense
- Supercapacitor
- Others

Companies Profiled:

- Sila Nanotechnologies (USA)
- Amprius Technologies (USA)
- Group14 Technologies (USA)
- Nexeon Limited (UK)
- LeydenJar Technologies (Netherlands)
- OneD Battery Sciences (USA)
- NanoGraf Corporation (USA)
- Sicona Battery Technologies (Australia)
- Daejoo Electronic Materials (South Korea)
- BTR New Material Group (China)

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POSCO Future M (South Korea)

Resonac Holdings (Japan)

Key Questions Answered:

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

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Contents

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5 MARKET ANALYSIS BY TYPE

6 MARKET ANALYSIS BY PORE STRUCTURE

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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