+357 96 030922
info@marketpublishers.com

Global Porous Electrode Material Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

https://marketpublishers.com/r/GA5EACDE313EEN.html
Date: May 2026
Pages: 112
Price: US$ 3,480.00 (Single User License)
ID: GA5EACDE313EEN

Abstracts

According to our (Global Info Research) latest study, the global Porous Electrode Material market size was valued at US$ 18457 million in 2025 and is forecast to a readjusted size of US$ 47628 million by 2032 with a CAGR of 14.5% during review period.

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 is a detailed and comprehensive analysis for global Porous Electrode Material market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is

+357 96 030922
info@marketpublishers.com

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 Porous Electrode Material market size and forecasts, in consumption value ($ Million), sales quantity (Kilotons), and average selling prices (US$/Ton), 2021-2032

Global Porous Electrode Material market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Kilotons), and average selling prices (US$/Ton), 2021-2032

Global Porous Electrode Material market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Kilotons), and average selling prices (US$/Ton), 2021-2032

Global Porous Electrode Material market shares of main players, shipments in revenue ($ Million), sales quantity (Kilotons), 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 Porous Electrode Material

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 Porous Electrode Material 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 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

+357 96 030922
info@marketpublishers.com

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.

Market Segmentation

Porous Electrode Material 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

Carbon-based Material

Silicon-based Material

Metal-based Material

Polymer-based Material

Market segment by Pore Structure

Microporous (50 nm)

Hierarchical Porous

Market segment by Application

Electric Vehicle

Consumer Electronic

Energy Storage

Aerospace & Defense

+357 96 030922
info@marketpublishers.com

Supercapacitor

Others

Major players covered

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)

POSCO Future M (South Korea)

Resonac Holdings (Japan)

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)

+357 96 030922
info@marketpublishers.com

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 Porous Electrode Material product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Porous Electrode Material, with price, sales quantity, revenue, and global market share of Porous Electrode Material from 2021 to 2026.

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

Chapter 4, the Porous Electrode Material 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 Porous Electrode Material 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 Porous Electrode Material.

+357 96 030922
info@marketpublishers.com

Chapter 14 and 15, to describe Porous Electrode Material sales channel, distributors, customers, research findings and conclusion.

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Porous Electrode Material Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

Product link: https://marketpublishers.com/r/GA5EACDE313EEN.html

Price: US$ 3,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/GA5EACDE313EEN.html