

# Global Porous Silicon Anode Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Porous Silicon Anode market size is expected to reach \$ 4464 million by 2032, rising at a market growth of 18.9% CAGR during the forecast period (2026-2032).

Porous Silicon Anode refers to a next-generation lithium-ion battery anode material in which silicon is engineered into a porous (micro-/meso-/nano-structured) architecture to accommodate silicon's large volume expansion (~300%) during charge/discharge cycles, thereby improving cycle life, energy density, and mechanical stability compared with conventional graphite anodes. The supply chain begins upstream with high-purity silicon sources (metallurgical silicon, polysilicon, or silane gas) supplied by major silicon producers, along with precursor chemicals (etchants, templating agents, carbon sources) and processing equipment; the midstream involves advanced material engineering processes such as chemical etching, magnesiothermic reduction, chemical vapor deposition (CVD), or templated synthesis to create porous silicon structures, often followed by carbon coating or composite formation (Si/C) to enhance conductivity and stability, typically carried out by specialized battery material companies; downstream, the porous silicon anode powders are integrated into electrode formulations (with binders, conductive additives), coated onto current collectors, and assembled into lithium-ion battery cells by battery manufacturers, which are then supplied to end-use sectors such as electric vehicles, consumer electronics, and energy storage systems, with OEMs and integrators forming the final link in the value chain. In 2025, global Porous Silicon Anode output was about 150,000 tons with 200,000 tons of capacity, average prices of USD 7,000-15,000 per ton, and gross margins around 37%.

This report studies the global Porous Silicon Anode production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Porous Silicon Anode 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 Porous Silicon Anode that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Porous Silicon Anode total production and demand, 2021-2032, (Tons)

Global Porous Silicon Anode total production value, 2021-2032, (USD Million)

Global Porous Silicon Anode production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Porous Silicon Anode consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Porous Silicon Anode domestic production, consumption, key domestic manufacturers and share

Global Porous Silicon Anode production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Porous Silicon Anode production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Porous Silicon Anode production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Porous Silicon Anode 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), Enevate Corporation (USA), NanoGraf Corporation (USA), OneD Battery Sciences (USA), Nanotek Instruments (USA), Nexxon Limited (UK), LeydenJar Technologies (Netherlands), Daejoo Electronic Materials (South Korea), 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 Silicon Anode 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 Porous Silicon Anode Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Porous Silicon Anode Market, Segmentation by Type:

Crystalline Porous Silicon Anode

Amorphous Porous Silicon Anode

#### Global Porous Silicon Anode Market, Segmentation by Pore Structure:

Microporous Silicon (50 nm)

Hierarchical Porous Silicon

## Global Porous Silicon Anode Market, Segmentation by Application:

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

## Companies Profiled:

- Sila Nanotechnologies (USA)
- Amprius Technologies (USA)
- Group14 Technologies (USA)
- Enevate Corporation (USA)
- NanoGraf Corporation (USA)
- OneD Battery Sciences (USA)
- Nanotek Instruments (USA)
- Nexxon Limited (UK)
- LeydenJar Technologies (Netherlands)
- Daejoo Electronic Materials (South Korea)
- BTR New Energy Materials (China)
- Shanshan Technology (China)

**Key Questions Answered:**

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

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