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Global Low-Porosity Carbon Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G6C528A12CD8EN.html
Date: May 2026
Pages: 128
Price: US$ 4,480.00 (Single User License)
ID: G6C528A12CD8EN

Abstracts

The global Low-Porosity Carbon market size is expected to reach $ 6177 million by 2032, rising at a market growth of 6.5% CAGR during the forecast period (2026-2032).

Low-porosity carbon refers to a class of carbon materials engineered with a highly compact microstructure and minimal internal pore volume, resulting in high density, low surface area, and enhanced mechanical strength, electrical conductivity, and chemical stability. These materials are typically produced through controlled carbonization and graphitization of precursors such as petroleum pitch, coal tar pitch, phenolic resins, or synthetic polymers, followed by densification processes (e.g., impregnation, re-carbonization, or hot isostatic pressing) to reduce voids and defects. The supply chain begins upstream with feedstocks from petrochemical and coal chemical industries, along with specialty resins and additives; midstream processing includes precursor synthesis, molding or forming (blocks, electrodes, coatings), high-temperature carbonization (800?1,500?C), graphitization (up to ~3,000?C), and densification treatments; downstream, low-porosity carbon is used in applications requiring high structural integrity and low permeability, such as lithium-ion battery anodes (especially high-density hard carbon), nuclear graphite components, semiconductor processing equipment, seals and bearings, and corrosion-resistant industrial parts, with key players spanning carbon material manufacturers, specialty chemical companies, and advanced materials integrators. In 2025, global Low-Porosity Carbon output was about 3.2 million tons with 4.8 million tons of capacity, average prices of USD 1,100 ? 2,100 per ton, and gross margins around 18%.

This report studies the global Low-Porosity Carbon production, demand, key manufacturers, and key regions.

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This report is a detailed and comprehensive analysis of the world market for Low-Porosity Carbon 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 Low-Porosity Carbon that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

This report profiles key players in the global Low-Porosity Carbon 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 BTR New Material (China), Ningbo Shanshan (China), Shanghai Putailai (China), Shenzhen Xiangfenghua (China), Fujian Yuanli (China), Fujian Xinsen (China), Shengquan Group (China), Hunan Shinzoom Technology (China), Iopsilion (South Korea), Kuraray (Japan), 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 Low-Porosity Carbon market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$

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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 Low-Porosity Carbon Market, By Region:

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

Global Low-Porosity Carbon Market, Segmentation by Type:

- Low-porosity Amorphous Carbon
- Low-porosity Graphitic Carbon

Global Low-Porosity Carbon Market, Segmentation by Production Method:

- Pitch-Derived Carbon
- Coke-Based Carbon
- Polymer-Derived Carbon

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Global Low-Porosity Carbon Market, Segmentation by Application:

Energy Storage

Nuclear Energy

Semiconductor

Filtration System

Others

Companies Profiled:

BTR New Material (China)

Ningbo Shanshan (China)

Shanghai Putailai (China)

Shenzhen Xiangfenghua (China)

Fujian Yuanli (China)

Fujian Xinsen (China)

Shengquan Group (China)

Hunan Shinzoom Technology (China)

Iopsilion (South Korea)

Kuraray (Japan)

JFE Chemical (Japan)

Kureha Corporation (Japan)

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Sumitomo Chemical (Japan)

Stora Enso (Finland)

Key Questions Answered:

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

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