

# Global Supermicroporous Carbon Block Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Supermicroporous Carbon Block market size is expected to reach \$ 220 million by 2032, rising at a market growth of 3.5% CAGR during the forecast period (2026-2032).

Supermicroporous Carbon Block refers to carbon materials with specific geometric shapes that are made from anthracite, artificial graphite, and coal tar pitch as the main raw materials, with the addition of various additives, through batching, mixing, molding, calcination, and machining. These materials possess special properties such as low oxidation rate in blast furnaces, resistance to molten iron erosion, resistance to alkali corrosion, good thermal conductivity, and an average pore size of less than 0.1  $\mu$ m. The unit price of supermicroporous carbon blocks is typically around \$2,000 per ton, with industry gross margins usually between 15% and 25%.

Upstream, supermicroporous carbon blocks rely on a raw-material chain centered on anthracite and petroleum coke or other carbon sources, artificial graphite or graphitizable carbon, coal tar pitch as the primary binder, and selected additives that tune oxidation resistance, alkali resistance, and microstructure, supported by suppliers of refractories-grade aggregates, binders, and machining consumables. Manufacturing sits in the midstream and is capability-driven, involving crushing and classification, precise batching and intensive mixing, high-pressure forming, controlled calcination and sometimes impregnation-based densification, followed by machining to tight dimensions and quality control focused on pore structure uniformity and service reliability.

Downstream, products flow through refractory producers and furnace-lining integrators to end users mainly in blast furnace ironmaking, where carbon blocks are procured either directly by steelmakers or via relining contractors as part of a complete hearth and bottom lining package, with demand shaped by furnace relining cycles, hearth life-

extension strategies, and the availability of installation support and technical service during commissioning and campaign operation.

The Supermicroporous Carbon Block market represents a specialized segment within the high-end refractory and functional carbon materials industry, with demand primarily driven by blast furnace ironmaking and other high-temperature, extreme operating environments. Through precise control of raw material formulation, forming processes, and pore structure engineering, these materials achieve a combination of ultra-fine pore architecture and superior physicochemical properties. They demonstrate clear advantages in reducing oxidation consumption within blast furnaces, resisting molten iron erosion, and enhancing the overall stability of furnace linings. As the steel industry increasingly prioritizes longer service life, higher structural stability, energy efficiency, and green metallurgy practices, carbon blocks featuring supermicroporous structures and high density are gradually becoming an upgrade solution for critical blast furnace zones. Competitive differentiation in this sector centers on raw material purity control, pore size regulation capability, erosion resistance optimization, and the ability to maintain consistent quality at scale.

This report studies the global Supermicroporous Carbon Block production, demand, key manufacturers, and key regions.

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

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

Global Supermicroporous Carbon Block total production and demand, 2021-2032, (Tons)

Global Supermicroporous Carbon Block total production value, 2021-2032, (USD Million)

Global Supermicroporous Carbon Block production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Supermicroporous Carbon Block consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Supermicroporous Carbon Block domestic production, consumption, key domestic manufacturers and share

Global Supermicroporous Carbon Block production by manufacturer, production, price,

value and market share 2021-2026, (USD Million) & (Tons)

Global Supermicroporous Carbon Block production by Application Area, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Supermicroporous Carbon Block production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Supermicroporous Carbon Block 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 Tokai COBEX, NDK, UKRGRAFIT, TYK, Fangda Carbon New Material, WISDRI Handan Wupeng Furnace Lining New Material, Zhengzhou RongSheng Refractory, Ningxia Wenshun New Carbon Products, Zhengzhou Kerui(Group) Refractory, Zhengzhou Baoshi Refractory Material, 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 Supermicroporous Carbon Block 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 Application Area, 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 Supermicroporous Carbon Block Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Supermicroporous Carbon Block Market, Segmentation by Application Area:

Hearth

Bottom

Global Supermicroporous Carbon Block Market, Segmentation by Downstream Customer:

State-owned Steel Groups

Private Steel Enterprises

Global Supermicroporous Carbon Block Market, Segmentation by Manufacturing Form:

Standard

Customized

Global Supermicroporous Carbon Block Market, Segmentation by Application:

Foundry

Smelter

Others

**Companies Profiled:**

Tokai COBEX

NDK

UKRGRAFIT

TYK

Fangda Carbon New Material

WISDRI Handan Wupeng Furnace Lining New Material

Zhengzhou RongSheng Refractory

Ningxia Wenshun New Carbon Products

Zhengzhou Kerui(Group) Refractory

Zhengzhou Baoshi Refractory Material

Tyreen

**Key Questions Answered:**

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

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