

Global Silicon Carbide Powder Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Silicon Carbide Powder market size is expected to reach \$ 1490 million by 2032, rising at a market growth of 9.3% CAGR during the forecast period (2026-2032).

Silicon Carbide Powder is an advanced synthetic ceramic material formed from silicon and carbon, distinguished by outstanding hardness, efficient thermal conductivity, strong chemical resistance, and wide-bandgap characteristics. Silicon Carbide Powder is generally divided into two principal categories: abrasive or metallurgical grade and high-purity electronic grade. Abrasive-grade Silicon Carbide Powder, commonly supplied in black or green forms, is extensively consumed in conventional applications such as grinding, surface polishing, refractory production, and wear-resistant materials. High-purity electronic-grade Silicon Carbide Powder, by comparison, typically offers purity above 99.99%, tightly regulated particle-size distribution, and strict control of metallic and non-metallic contaminants. This grade is an essential feedstock for semiconductor crystal growth, advanced ceramic manufacturing, and components operating under high-temperature, high-voltage, or high-power conditions. Silicon Carbide Powder combines thermal conductivity approximately three times that of silicon with exceptional abrasion resistance and reliable performance in extreme environments. These characteristics increasingly support its use in power electronics, electric vehicles, renewable-energy equipment, aerospace systems, and other next-generation technologies.

Silicon Carbide Powder operates within a global supply chain defined by energy-intensive upstream production, specialized purification and particle engineering, and a broad range of downstream applications. At the upstream stage, Silicon Carbide Powder is commonly derived from crude SiC manufactured through the Acheson process, in which high-purity silica sand and petroleum coke are reacted in electric-

resistance furnaces at temperatures exceeding 2,000°C. The resulting crystalline material subsequently undergoes crushing, magnetic separation, chemical purification, classification, milling, and surface treatment to achieve the purity and particle characteristics required by individual applications. Major international suppliers include Fiven, Washington Mills, Fujimi, H?gan?s, Pacific Rundum, Shin-Etsu Chemical, and ESK-SIC GmbH. These producers differentiate themselves through proprietary expertise in impurity removal, particle-shape control, crystal-phase management, and batch-to-batch consistency. Downstream purchasing requirements vary substantially by industry. Semiconductor substrate producers, including Wolfspeed, SK Siltron, and II-VI Incorporated, consume high-purity Silicon Carbide Powder and impose stringent limits on trace impurities, crystal defects, and quality variability, generally supported by qualification procedures and long-term supply arrangements. Procurement remains price-sensitive for established 6-inch wafer platforms, despite demanding technical specifications. Advanced packaging and thermal-management companies, including TSMC and manufacturing partners serving NVIDIA-related ecosystems, typically adopt project-based development models and place greater emphasis on heat dissipation, reliability, and material compatibility than on unit price. Abrasive, refractory, and technical-ceramic manufacturers purchase larger volumes of standard-grade Silicon Carbide Powder, with sourcing decisions driven mainly by bulk pricing, particle-size consistency, production continuity, and delivery security. Owing to its technical processing requirements and value-added purification stages, supplier gross margins commonly fall within a 25%-30% range, although profitability is generally lower in commoditized abrasive markets and may weaken during aggressive price competition across semiconductor-related supply chains.

Silicon Carbide Powder entered 2025 at an important transition point, with softer and more cyclical conditions in mature applications occurring alongside sustained structural expansion in higher-value technology markets. Global production reached approximately 133,000 metric tons, while the average market price was about USD 5.90 per kilogram. This blended price conceals a substantial difference between product categories. Standard abrasive-grade Silicon Carbide Powder continues to experience pricing pressure associated with competitive supply, despite increasing costs for electricity, petroleum coke, silica, and environmental compliance. High-purity electronic-grade Silicon Carbide Powder demonstrates stronger price stability because qualification standards are more demanding, eligible supply is more limited, and semiconductor customers require consistent purity, morphology, and crystallographic performance.

This report studies the global Silicon Carbide Powder production, demand, key

manufacturers, and key regions.

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

Highlights and key features of the study

Global Silicon Carbide Powder total production and demand, 2021-2032, (Kilotons)

Global Silicon Carbide Powder total production value, 2021-2032, (USD Million)

Global Silicon Carbide Powder production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Silicon Carbide Powder consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Silicon Carbide Powder domestic production, consumption, key domestic manufacturers and share

Global Silicon Carbide Powder production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Silicon Carbide Powder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Silicon Carbide Powder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Silicon Carbide Powder 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 Fiven, Washington Mills, Fujimi, H?gan?s, Nanomakers, Pacific Rundum, Shin-Etsu Chemical, ESK-SIC GmbH, Superior Graphite, Wolfspeed, 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 Silicon Carbide Powder market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) 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 Silicon Carbide Powder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Silicon Carbide Powder Market, Segmentation by Type:

General Grade SiC Powder

High Purity SiC Powder

Global Silicon Carbide Powder Market, Segmentation by Technology:

Acheson Method

SHS Method

CVD Method

Others

Global Silicon Carbide Powder Market, Segmentation by Particle Size Band:

Coarse Powder 45?150 ?m

Fine Powder 1?45 ?m

Submicron Powder 0.1?1 ?m

Nano Powder

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