

Global Silicon Carbide Powder Market Growth 2026-2032

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Abstracts

The global Silicon Carbide Powder market size is predicted to grow from US\$ 768 million in 2025 to US\$ 1462 million in 2032; it is expected to grow at a CAGR of 9.8% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "Silicon Carbide Powder Industry Forecast" looks at past sales and reviews total world Silicon Carbide Powder sales in 2025, providing a comprehensive analysis by region and market sector of projected Silicon Carbide Powder sales for 2026 through 2032. With Silicon Carbide Powder sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Silicon Carbide Powder industry.

This Insight Report provides a comprehensive analysis of the global Silicon Carbide Powder landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Silicon Carbide Powder portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Silicon Carbide Powder market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Silicon Carbide Powder and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Silicon Carbide Powder.

This report presents a comprehensive overview, market shares, and growth opportunities of Silicon Carbide Powder market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

General Grade SiC Powder

High Purity SiC Powder

Segmentation by Technology:

Acheson Method

SHS Method

CVD Method

Others

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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