

Global High Purity Silicon Carbide (SiC) Powder for Wafer Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High Purity Silicon Carbide (SiC) Powder for Wafer market size is expected to reach \$ 377 million by 2032, rising at a market growth of 15.4% CAGR during the forecast period (2026-2032).

High purity silicon carbide (SiC) powder for wafer manufacturing is a purified, size-classified SiC feedstock engineered for physical vapor transport (PVT) growth of single-crystal SiC boules. Compared with general abrasive-grade SiC, it specifies ultra-low metallic and oxygen impurities, controlled free-Si/free-C, and an optimized particle-size distribution and packing behavior that stabilize sublimation/recrystallization and increase source utilization in the PVT hot zone.

The key raw materials include carbon powder (graphite), silicon powder, high-purity quartz / silica, chlorosilane precursor, hydrogen. Downstream applications are mainly used in the production of wafers of different sizes, such as 4-inch, 6-inch, and 8-inch.

In 2025, global sales of high purity silicon carbide powder for wafer reached approximately 776 tons, with an average global market price of around US\$ 170/kg. Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 20% to 40%.

Silicon carbide (SiC) is a compound semiconductor composed of silicon and carbide. SiC provides a number of advantages over silicon, including 10x the breakdown electric field strength, 3x the band gap, and enabling a wider range of p- and n-type control required for device construction. The result is breakthrough performance, not possible with silicon, making it the most viable successor for next-generation power devices.

As demand for electric vehicles continues to grow, manufacturers are comparing two semiconductor technologies, silicon carbide and silicon, for power electronics applications. Silicon carbide (SiC) provides the high temperature resistance, low power consumption, rigidity, and support for smaller, thinner designs that EV power electronics need. Examples of SiC's current applications include on-board DC/DC converters, off-board DC fast chargers, on-board battery chargers, EV powertrains, and automotive lighting for LEDs.

SiC technology could also drive future EV innovations as battery and motor manufacturers reach the physical limits of existing technologies and need to develop more efficient drivetrains.

Fast demand from downstream industries stimulates the SiC related industries, including the upstream and downstream industries. High purity silicon carbide powder for wafer industry will benefit from this and keeps fast growth in the coming years.

This report studies the global High Purity Silicon Carbide (SiC) Powder for Wafer production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global High Purity Silicon Carbide (SiC) Powder for Wafer total production and demand, 2021-2032, (Tons)

Global High Purity Silicon Carbide (SiC) Powder for Wafer total production value, 2021-2032, (USD Million)

Global High Purity Silicon Carbide (SiC) Powder for Wafer production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global High Purity Silicon Carbide (SiC) Powder for Wafer consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: High Purity Silicon Carbide (SiC) Powder for Wafer domestic production, consumption, key domestic manufacturers and share

Global High Purity Silicon Carbide (SiC) Powder for Wafer production by manufacturer,

production, price, value and market share 2021-2026, (USD Million) & (Tons)
Global High Purity Silicon Carbide (SiC) Powder for Wafer production by Type,
production, value, CAGR, 2021-2032, (USD Million) & (Tons)
Global High Purity Silicon Carbide (SiC) Powder for Wafer production by Application,
production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global High Purity Silicon Carbide (SiC) Powder for Wafer 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 Wolfspeed, Coherent, TankeBlue, SiCrystal, SICC, Kymera International, Zadient, Ningbo Alpha Semiconductor, SK Siltron, Washington Mills, 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 High Purity Silicon Carbide (SiC) Powder for Wafer market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) 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 High Purity Silicon Carbide (SiC) Powder for Wafer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High Purity Silicon Carbide (SiC) Powder for Wafer Market, Segmentation by Type:

SHS Method

Acheson Method

CVD Method

Global High Purity Silicon Carbide (SiC) Powder for Wafer Market, Segmentation by Purity:

5N

6N

Other

Global High Purity Silicon Carbide (SiC) Powder for Wafer Market, Segmentation by Electrical Behavior:

Conductive (n-Type)

Semi-Insulating Type

Global High Purity Silicon Carbide (SiC) Powder for Wafer Market, Segmentation by Application:

4 Inch Wafer

6 Inch Wafer

8 Inch Wafer

Companies Profiled:

Wolfspeed

Coherent

TankeBlue

SiCrystal

SICC

Kymera International

Zadient

Ningbo Alpha Semiconductor

SK Siltron

Washington Mills

Resonac

Hebei Synlight Semiconductor

STMicroelectronics

Shanxi Semisic Crystal

NANOCMS

Key Questions Answered:

1. How big is the global High Purity Silicon Carbide (SiC) Powder for Wafer market?
2. What is the demand of the global High Purity Silicon Carbide (SiC) Powder for Wafer market?
3. What is the year over year growth of the global High Purity Silicon Carbide (SiC) Powder for Wafer market?
4. What is the production and production value of the global High Purity Silicon Carbide (SiC) Powder for Wafer market?
5. Who are the key producers in the global High Purity Silicon Carbide (SiC) Powder for Wafer market?
6. What are the growth factors driving the market demand?

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