

Global High Purity Silicon Carbide (SiC) Powder for Wafer Market Growth 2025-2031

<https://marketpublishers.com/r/GBD312C741D1EN.html>

Date: November 2025

Pages: 107

Price: US\$ 3,660.00 (Single User License)

ID: GBD312C741D1EN

Abstracts

The global High Purity Silicon Carbide (SiC) Powder for Wafer market size is predicted to grow from US\$ 167 million in 2025 to US\$ 414 million in 2031; it is expected to grow at a CAGR of 16.4% from 2025 to 2031.

Silicon carbide powder is synthesized by mixing high purity silicon powder and high purity carbon powder in a certain proportion at a high temperature. After crushing, cleaning and other processes, high purity silicon carbide powder is got and can be used in semiconductor and electronic applications. Particularly suitable for PVT crystal growth for Silicon Carbide wafer manufacturing.

In the report, high purity silicon carbide powder with the purity no less than 5N is researched. Presently, high purity silicon carbide powder for wafer is mainly produced by silicon carbide wafer manufacturers to cater to their own demand, as the powder is the raw material of silicon carbide crystal. Few of those silicon carbide wafer manufacturers sell silicon carbide powder to the market.

SiC (silicon carbide) 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 (EVs) 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.

LP Information, Inc. (LPI) ' newest research report, the "High Purity Silicon Carbide (SiC) Powder for Wafer Industry Forecast" looks at past sales and reviews total world High Purity Silicon Carbide (SiC) Powder for Wafer sales in 2024, providing a comprehensive analysis by region and market sector of projected High Purity Silicon Carbide (SiC) Powder for Wafer sales for 2025 through 2031. With High Purity Silicon Carbide (SiC) Powder for Wafer sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world High Purity Silicon Carbide (SiC) Powder for Wafer industry.

This Insight Report provides a comprehensive analysis of the global High Purity Silicon Carbide (SiC) Powder for Wafer 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 High Purity Silicon Carbide (SiC) Powder for Wafer portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global High Purity Silicon Carbide (SiC) Powder for Wafer market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for High Purity Silicon Carbide (SiC) Powder for Wafer 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 High Purity Silicon Carbide (SiC) Powder for Wafer.

This report presents a comprehensive overview, market shares, and growth

opportunities of High Purity Silicon Carbide (SiC) Powder for Wafer market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

SHS Method

Acheson Method

CVD Method

Segmentation by Application:

4 Inch Wafer

6 Inch Wafer

8 Inch Wafer

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Wolfspeed

Coherent Corp.

SiCrystal

SK Siltron

SICC

TankeBlue

Resonac

STMicroelectronics

Hebei Synlight Semiconductor

Fiven

Washington Mills

Shanxi Semisic Crystal

Pacific Rundum

Key Questions Addressed in this Report

What is the 10-year outlook for the global High Purity Silicon Carbide (SiC) Powder for Wafer market?

What factors are driving High Purity Silicon Carbide (SiC) Powder for Wafer market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do High Purity Silicon Carbide (SiC) Powder for Wafer market opportunities vary by end market size?

How does High Purity Silicon Carbide (SiC) Powder for Wafer break out by Type, by Application?

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