

# Global High-purity Silicon Carbide Powder for Wafer Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global High-purity Silicon Carbide Powder for Wafer market size was valued at USD 173.8 million in 2023 and is forecast to a readjusted size of USD 480.5 million by 2030 with a CAGR of 15.6% during review period.

Silicon carbide powder were 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.

Global 5 largest manufacturers of High-purity Silicon Carbide Powder for Wafer are Wolfspeed, Coherent Corp., SK Siltron, SiCrystal and Resonac, which make up about 85%. Among them, Wolfspeed is the leader with about 31% market share.

North America is the largest market, with a share about 67%, followed by Europe and Asia-Pacific, with the share about 14% and 20%. In terms of product type, SHS Method occupy the largest share of the total market, about 98%. And in terms of product Application, the largest application is 4 Inch Wafer, followed by 6 Inch Wafer.

The Global Info Research report includes an overview of the development of the High-purity Silicon Carbide Powder for Wafer industry chain, the market status of 4 Inch (SHS Method, Acheson Method), 6 Inch (SHS Method, Acheson Method), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of High-purity Silicon Carbide Powder for Wafer.

Regionally, the report analyzes the High-purity Silicon Carbide Powder for Wafer markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global High-purity Silicon Carbide Powder for Wafer market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the High-purity Silicon Carbide Powder for Wafer market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the High-purity Silicon Carbide Powder for Wafer industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (MT), revenue generated, and market share of different by Type (e.g., SHS Method, Acheson Method).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the High-purity Silicon Carbide Powder for Wafer market.

**Regional Analysis:** The report involves examining the High-purity Silicon Carbide Powder for Wafer market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the High-purity Silicon Carbide Powder for Wafer market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to High-purity Silicon Carbide Powder for Wafer:

**Company Analysis:** Report covers individual High-purity Silicon Carbide Powder for Wafer manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards High-purity Silicon Carbide Powder for Wafer. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (4 Inch, 6 Inch).

**Technology Analysis:** Report covers specific technologies relevant to High-purity Silicon Carbide Powder for Wafer. It assesses the current state, advancements, and potential future developments in High-purity Silicon Carbide Powder for Wafer areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the High-purity Silicon Carbide Powder for Wafer market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

High-purity Silicon Carbide Powder for Wafer market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

## Market segment by Type

SHS Method

Acheson Method

CVD Method

#### Market segment by Application

4 Inch

6 Inch

8 Inch

#### Major players covered

Wolfspeed

Coherent Corp.

SK Siltron

SiCrystal

Resonac

STMicroelectronics

TankeBlue

SICC

HebHebei Synlight Semiconductor

Shanxi Semisic Crystal

Fiven

## Pacific Rundum

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe High-purity Silicon Carbide Powder for Wafer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High-purity Silicon Carbide Powder for Wafer, with price, sales, revenue and global market share of High-purity Silicon Carbide Powder for Wafer from 2019 to 2024.

Chapter 3, the High-purity Silicon Carbide Powder for Wafer competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High-purity Silicon Carbide Powder for Wafer breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales

quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and High-purity Silicon Carbide Powder for Wafer market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of High-purity Silicon Carbide Powder for Wafer.

Chapter 14 and 15, to describe High-purity Silicon Carbide Powder for Wafer sales channel, distributors, customers, research findings and conclusion.

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