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Global Silicon Carbide Wafers and Substrates Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Silicon Carbide Wafers and Substrates market size was valued at US$ 1254 million in 2024 and is forecast to a readjusted size of USD 3187 million by 2031 with a CAGR of 14.4% during review period.

Silicon carbide is an inorganic substance with the chemical formula SiC. It is made of raw materials such as quartz sand, petroleum coke (or coal coke), and sawdust (salt is needed to produce green silicon carbide) through high-temperature smelting in a resistance furnace. Silicon carbide is a semiconductor that exists in nature in the form of the extremely rare mineral moissanite. Since 1893, it has been mass-produced as powder and crystals for use as abrasives, etc. Among non-oxide high-tech refractory raw materials such as C, N, and B, silicon carbide is the most widely used and economical one, which can be called diamond sand or refractory sand.

Wafer refers to the cutting, grinding, and polishing of crystals along a specific crystal direction to obtain a clean single wafer with specific crystal planes and appropriate electrical, optical, and mechanical properties for growing epitaxial layers. Silicon carbide wafer is the core material of the newly developed wide bandgap semiconductor. The devices made with it have the characteristics of high temperature resistance, high voltage resistance, high frequency, high power, and radiation resistance. It has the advantages of fast switching speed and high efficiency, which can greatly reduce product power consumption, improve energy conversion efficiency, and reduce product volume. According to different electrical properties, silicon carbide wafer can be divided into two categories: semi-insulating silicon carbide wafer and conductive silicon carbide wafer. These two types of wafer are clearly used to manufacture discrete devices such

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as power devices and radio frequency devices after epitaxial growth.

At present, 6-inch SiC wafer still occupy the mainstream market, but 8-inch wafer are gradually penetrating. Compared with 6-inch wafer, the cost of 8-inch SiC wafer can be reduced by about 35%, and more wafers can be cut out with less edge waste, which greatly improves the effective utilization of materials. Therefore, domestic and foreign manufacturers are accelerating research and development, expanding production, and entering the 8-inch silicon carbide market.

From the perspective of the global silicon carbide wafer material market, Wolfspeed, Coherent, Rohm, etc. still occupy a dominant position in the industry. However, in recent years, my country's silicon carbide material market has also been very hot. Wafer manufacturers such as CETC, TankeBlue, SICC, Hebei Synlight Crystal, and Sanan Optoelectronics have all achieved mass production. From the perspective of the terminal market, the demand for silicon carbide remains strong, whether in automobiles, photovoltaics, or industry. As the first car company in the industry to apply silicon carbide on a large scale, Tesla's Model 3 and Model Y models are selling well. In 2023, the penetration rate of silicon carbide in the field of pure electric passenger vehicles will be 25%, of which Model 3 and Model Y will contribute 60% to 70%. At the same time, driven by new car-making forces at home and abroad, the market structure of silicon carbide is gradually becoming diversified. In 2023, there will be a number of standard silicon carbide models in the price range of 200,000 to 250,000 yuan, such as Xiaopeng G6, Zeekr X, and Zhiji LS6. The high-performance strategy of new car companies is accelerating the market penetration of silicon carbide. In the future, all models with a price of more than 200,000 yuan may be equipped with silicon carbide devices as standard. Not only new energy vehicles, but also charging piles, photovoltaics, and industrial markets have great potential demand for silicon carbide. Wind, solar, storage, and industrial demand are also gradually increasing the application of silicon carbide devices and modules to cope with high-frequency, small-volume, and energy-saving scenarios, and the application scale is also considerable.

This report is a detailed and comprehensive analysis for global Silicon Carbide Wafers and Substrates market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

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Key Features:

Global Silicon Carbide Wafers and Substrates market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2020-2031

Global Silicon Carbide Wafers and Substrates market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2020-2031

Global Silicon Carbide Wafers and Substrates market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2020-2031

Global Silicon Carbide Wafers and Substrates market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Silicon Carbide Wafers and Substrates

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Silicon Carbide Wafers and Substrates market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Wolfspeed, SK Siltron, ROHM Group (SiCrystal), Coherent, TankeBlue, Resonac, STMicroelectronics, SICC, Hebei Synlight Crystal, CETC, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

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Silicon Carbide Wafers and Substrates market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- 4 Inch
- 6 Inch
- 8 Inch

Market segment by Application

- Power Device
- Electronics & Optoelectronics
- Wireless Infrastructure
- Others

Major players covered

- Wolfspeed
- SK Siltron
- ROHM Group (SiCrystal)
- Coherent
- TankeBlue

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Resonac

STMicroelectronics

SICC

Hebei Synlight Crystal

CETC

San'an Optoelectronics

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 Silicon Carbide Wafers and Substrates product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silicon Carbide Wafers and Substrates, with price, sales quantity, revenue, and global market share of Silicon Carbide Wafers and Substrates from 2020 to 2025.

Chapter 3, the Silicon Carbide Wafers and Substrates competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

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Chapter 4, the Silicon Carbide Wafers and Substrates breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

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 2020 to 2025.and Silicon Carbide Wafers and Substrates market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Silicon Carbide Wafers and Substrates.

Chapter 14 and 15, to describe Silicon Carbide Wafers and Substrates sales channel, distributors, customers, research findings and conclusion.

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