

Global Carborundum Wafer Market Growth 2025-2031

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Abstracts

The global Carborundum Wafer market size is predicted to grow from US\$ 1350 million in 2025 to US\$ 3176 million in 2031; it is expected to grow at a CAGR of 15.3% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Carborundum Wafers, also known as Silicon carbide(SiC) Wafer, 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 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.

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

This Insight Report provides a comprehensive analysis of the global Carborundum 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 Carborundum Wafer portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Carborundum Wafer market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Carborundum 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 Carborundum Wafer.

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

Segmentation by Type:

4 Inch

6 Inch

8 Inch

Segmentation by Application:

Power Device

Electronics & Optoelectronics

Wireless Infrastructure

Other

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

SK Siltron

ROHM Group (SiCrystal)

Coherent

Resonac

STMicroelectronics

TankeBlue

SICC

Hebei Synlight Crystal

CETC

San'an Optoelectronics

Key Questions Addressed in this Report

What is the 10-year outlook for the global Carborundum Wafer market?

What factors are driving Carborundum Wafer market growth, globally and by region?

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

How do Carborundum Wafer market opportunities vary by end market size?

How does Carborundum Wafer break out by Type, by Application?

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