

Global Silicon Carbide Wafer Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Silicon Carbide Wafer market size will reach 1,511.95 Million USD in 2025 and is projected to reach 3,675.46 Million USD by 2032, with a CAGR of 13.53% (2025-2032). Notably, the China Silicon Carbide Wafer market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

A silicon carbide wafer is a thin, flat slice of silicon carbide crystal that serves as a substrate for the fabrication of electronic devices. Silicon carbide (SiC) is a semiconductor material that offers unique properties such as high thermal conductivity, wide bandgap, and high breakdown voltage, making it suitable for high-power and high-temperature applications. Silicon carbide wafers are manufactured using techniques such as the modified Lely method or the physical vapor transport (PVT) method, resulting in single-crystal wafers with high purity and uniformity. These wafers are used in the production of power semiconductor devices such as Schottky diodes, MOSFETs (Metal-Oxide-Semiconductor Field-Effect Transistors), and JFETs (Junction Field-Effect Transistors), as well as in optoelectronic devices like LEDs and photodetectors. Silicon carbide wafers enable the fabrication of devices with superior performance and efficiency, particularly in high-power and high-frequency applications, compared to traditional silicon-based devices.

The major global manufacturers of Silicon Carbide Wafer include Wolfspeed, SK Siltron,

ROHM Group (SiCrystal), Coherent, Resonac, STMicroelectronics, TankeBlue, SICC, Hebei Synlight Crystal, CETC, San'an Optoelectronics, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Silicon Carbide Wafer. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Silicon Carbide Wafer market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Silicon Carbide Wafer market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Silicon Carbide Wafer industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Silicon Carbide Wafer Include:

Wolfspeed

SK Siltron

ROHM Group (SiCrystal)

Coherent

Resonac

STMicroelectronics

TankeBlue

SICC

Hebei Synlight Crystal

CETC

San'an Optoelectronics

Silicon Carbide Wafer Product Segment Include:

4 Inch

6 Inch

8 Inch

Silicon Carbide Wafer Product Application Include:

Power Device

Electronics & Optoelectronics

Wireless Infrastructure

Others

Chapter Scope

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