

# Global Silicon Carbide (SiC) Substrate Competitive Landscape Professional Research Report 2025

<https://marketpublishers.com/r/S90FC00E123EEN.html>

Date: June 2025

Pages: 165

Price: US\$ 3,500.00 (Single User License)

ID: S90FC00E123EEN

## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global Silicon Carbide (SiC) Substrate market size will reach 967.52 Million USD in 2025 and is projected to reach 2,363.61 Million USD by 2032, with a CAGR of 13.61% (2025-2032). Notably, the China Silicon Carbide (SiC) Substrate 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

Silicon Carbide (SiC) substrates are high-quality crystalline substrates used as the foundation for fabricating electronic and optoelectronic devices. SiC substrates are typically manufactured using various growth methods such as the chemical vapor deposition (CVD) or physical vapor transport (PVT) processes, resulting in single-crystal substrates with superior material properties. These substrates offer advantages such as high thermal conductivity, wide bandgap, low thermal expansion coefficient, and excellent mechanical strength, making them ideal for high-power, high-frequency, and high-temperature applications. SiC substrates find extensive use in the production of power semiconductor devices, including Schottky diodes, MOSFETs, and IGBTs, as well as in radio-frequency (RF) and microwave devices due to their ability to operate at elevated temperatures and high voltages while minimizing power losses. Additionally, SiC substrates are employed in the fabrication of ultraviolet (UV) photodetectors, light-emitting diodes (LEDs), and other optoelectronic devices where their wide bandgap allows for efficient emission and detection of light across a broad spectrum. Overall, SiC substrates play a crucial role in advancing the performance, efficiency, and reliability of

various electronic and optoelectronic systems across numerous industries.

The major global manufacturers of Silicon Carbide (SiC) Substrate include Cree, DuPont (Dow Corning), SiCrystal, II-VI Advanced Materials, Nippon Steel & Sumitomo Metal, Showa Denko, Norstel, TankeBlue, SICC, CETC, Hebei Synlight Crystal, 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 (SiC) Substrate. 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 (SiC) Substrate 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 (SiC) Substrate 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 (SiC) Substrate 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 (SiC) Substrate Include:**

Cree

DuPont (Dow Corning)

SiCrystal

II-VI Advanced Materials

Nippon Steel & Sumitomo Metal

Showa Denko

Norstel

TankeBlue

SICC

CETC

Hebei Synlight Crystal

Silicon Carbide (SiC) Substrate Product Segment Include:

2 Inch

3 Inch

4 Inch

6 Inch

Others

Silicon Carbide (SiC) Substrate Product Application Include:

Power Electronics

Radio Frequency (RF) Devices

Lighting and Optoelectronics

Others

## **Chapter Scope**

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