

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

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global CVD Silicon Carbide (SiC) market size will reach 1,026.05 Million USD in 2025 and is projected to reach 1,966.63 Million USD by 2032, with a CAGR of 9.74% (2025-2032). Notably, the China CVD Silicon Carbide (SiC) 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

CVD Silicon Carbide (SiC) is a synthetic material produced through the Chemical Vapor Deposition (CVD) process. In this method, silicon-containing gas and carbon-containing gas are introduced into a high-temperature chamber, where they react and form a silicon carbide film on a substrate. CVD SiC is known for its exceptional properties, including high hardness, thermal stability, and excellent thermal conductivity, making it an ideal material for various high-temperature and high-power applications. It is used in the manufacturing of semiconductors, power electronics, and optoelectronic devices, as well as in components for harsh environments, such as aerospace, automotive, and energy industries. CVD SiC's ability to maintain its mechanical and electrical properties at elevated temperatures and in aggressive chemical environments has led to its widespread adoption in critical engineering applications, where performance and reliability are essential.

The major global manufacturers of CVD Silicon Carbide (SiC) include Tokai Carbon, Morgan Advanced Materials, Ferrotec, CoorsTek, AGC, SKC Solmics, Mersen, Toyo

Tanso, Sgl Carbon, Zhicheng Semiconductor, 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 CVD Silicon Carbide (SiC). 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 CVD Silicon Carbide (SiC) 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 CVD Silicon Carbide (SiC) 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 CVD Silicon Carbide (SiC) 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 CVD Silicon Carbide (SiC) Include:

Tokai Carbon

Morgan Advanced Materials

Ferrotec

CoorsTek

AGC

SKC Solmics

Mersen

Toyo Tanso

Sgl Carbon

Zhicheng Semiconductor

CVD Silicon Carbide (SiC) Product Segment Include:

Low Resistivity Grade

Middle Resistivity Grade

High Resistivity Grade

CVD Silicon Carbide (SiC) Product Application Include:

Rapid Thermal Process Components

Plasma Etch Components

Susceptors and Dummy Wafer

LED Wafer Carriers and Cover Plates

Others

## Chapter Scope

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

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