

Global Silicon-Infiltrated Silicon Carbide Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Silicon-Infiltrated Silicon Carbide market size was valued at US\$ 568 million in 2025 and is forecast to a readjusted size of US\$ 875 million by 2032 with a CAGR of 6.3% during review period.

In 2025, global silicon-Infiltrated silicon carbide production reached approximately 54 kilotons, the average price is 10300 usd/ton. Silicon-Infiltrated silicon carbide consists of composites based on silicon carbide compounds with additional silicon infiltration. Tables and guide shafts for high-precision positioning systems, etc.

Market Concentration and Key Players:

Internationally, the market concentration of silicon-impregnated silicon carbide is relatively high, mainly concentrated in developed countries such as Europe, America and Japan. For example, large manufacturers such as TOTO and CeramTec; from the domestic point of view, silicon infiltration silicon carbide has a lot of room for development.

Manufacturing Processes and Market Trends:

Silicon impregnated silicon carbide is a high-performance composite material made by infiltrating silicon into silicon carbide matrix through precision technology. The core of its manufacturing process is reaction sintering method. This method first mixes silicon carbide powder with carbon source and shapes porous green body by pressing, etc., and then makes molten silicon or silicon vapor infiltrate green body in high temperature vacuum environment. Silicon reacts with carbon at high temperatures to form new

silicon carbide phases, filling pores inside the green body to achieve densification of the material. Accurate control of key process parameters such as temperature gradient and silicon vapor concentration is critical to ensure penetration uniformity and final product performance. In recent years, continuous innovation in process technology, such as the use of gas-phase and liquid-phase sequential siliconization method, effectively increased the material density and reduced the free silicon content.

At present, the market scale of silicon-impregnated silicon carbide continues to expand, especially in the fields of new energy vehicles, photovoltaic inverters and semiconductor manufacturing equipment. As an important global market, China is developing rapidly under the coordination of policy support and industrial chain, and local enterprises such as Tianyue Advanced are constantly improving their production capacity and technical level. The future market growth momentum is strong, and the stringent requirements for high temperature resistance, high thermal conductivity and thermal shock resistance of materials in high-end manufacturing fields such as 5G communication and aerospace will further expand its application scenarios. Technological innovation will focus on improving material purity, optimizing production efficiency and developing low-cost green production processes to meet growing market demand and strengthen industry competitiveness.

This report is a detailed and comprehensive analysis for global Silicon-Infiltrated Silicon Carbide 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.

Key Features:

Global Silicon-Infiltrated Silicon Carbide market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Silicon-Infiltrated Silicon Carbide market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Silicon-Infiltrated Silicon Carbide market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Silicon-Infiltrated Silicon Carbide market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 2021-2026

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-Infiltrated Silicon Carbide

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-Infiltrated Silicon Carbide 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 TOTO, CeramTec, Kyocera, Ceramdis, ESK-SIC GmbH, Felix Vuckovic, CoorsTek, Saint-Gobain, Schunk Carbon Technology, Entegris, etc.

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

Market Segmentation

Silicon-Infiltrated Silicon Carbide market is split by Type and by Application. For the period 2021-2032, 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

Powder

Blocky

Market segment by Performance

High Intensity

High Thermal Shock Resistance

High Corrosion Resistance

Market segment by Hole

High Density

Microporous

Market segment by Application

Machine Tool Table

Mirror Substrate

Precision Device

Others

Major players covered

TOTO

CeramTec

Kyocera

Ceramdis

ESK-SIC GmbH

Felix Vuckovic

CoorsTek

Saint-Gobain

Schunk Carbon Technology

Entegris

Japan Fine Ceramics

Syalons

Elkem

Carborundum Universal Limited

Morgan Advanced Materials

Silcarb

IPS Ceramics

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-Infiltrated Silicon Carbide product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silicon-Infiltrated Silicon Carbide, with price, sales quantity, revenue, and global market share of Silicon-Infiltrated Silicon Carbide from 2021 to 2026.

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

Chapter 4, the Silicon-Infiltrated Silicon Carbide breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Silicon-Infiltrated Silicon Carbide market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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-Infiltrated Silicon Carbide.

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

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