

Global Sintered Silicon Carbide (SSiC) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Sintered Silicon Carbide (SSiC) market size is expected to reach \$ 3231 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

Sintered silicon carbide ceramics refer to high-performance non-oxide structural ceramic materials and components in which silicon carbide (SiC) is the dominant crystalline phase and which are produced through sintering-based ceramic manufacturing routes. Under a broad market definition, this category includes pressureless or direct sintered silicon carbide (SSiC), reaction-bonded silicon carbide (RB-SiC / SiSiC), recrystallized silicon carbide (RSiC) etc. Although these routes differ in densification mechanism, all are based on SiC powder, SiC skeletons, or reaction-formed SiC phases that are consolidated, bonded, or recrystallized at high temperature into functional structural ceramic parts.

In terms of material characteristics, sintered silicon carbide ceramics are typically black, dark grey, or grey-black components with high hardness, excellent wear resistance, high thermal conductivity, low thermal expansion, strong thermal-shock resistance, good high-temperature strength retention, chemical corrosion resistance, and dimensional stability. Each sintering route has a distinct performance boundary. SSiC is highly dense and contains little or no free silicon, making it suitable for highly corrosive, abrasive, clean, and precision applications. RB-SiC or SiSiC is formed by silicon infiltration and reaction bonding, offering low firing shrinkage and good suitability for large or complex-shaped parts, but it usually contains residual free silicon.

This article uses a broad statistical scope, including RB-SiC. This article primarily compiles statistics on sintered silicon carbide components.

The market for sintered silicon carbide ceramics is evolving from a traditional wear- and corrosion-resistant materials segment into a high-performance structural ceramics market serving advanced equipment, semiconductor manufacturing, new energy thermal processing, and demanding industrial environments. Its growth is not driven solely by capacity expansion in downstream industries, but increasingly by material substitution, process upgrading, and the extension of application boundaries. Compared with alumina ceramics, metal alloys, graphite, and conventional refractory materials, sintered silicon carbide ceramics offer a strong combination of high hardness, high thermal conductivity, low thermal expansion, corrosion resistance, thermal-shock resistance, and dimensional stability. These properties support their broader use in mechanical seals, pumps and valves, heat exchangers, kiln furniture, nozzles, semiconductor equipment components, and high-temperature load-bearing structures.

From a product structure perspective, different processing routes such as SSiC, RB-SiC, and RSiC form a tiered market. Pressureless or direct sintered silicon carbide is better suited for highly corrosive, high-cleanliness, high-precision, and long-service-life applications, with typical demand coming from mechanical seals, chemical process equipment, and semiconductor ceramic components. Reaction-bonded silicon carbide, by contrast, benefits from low firing shrinkage, good suitability for large and complex shapes, and relatively controllable manufacturing cost, making it important in kiln beams, rollers, desulfurization nozzles, wear liners, and new energy firing fixtures. Future competition will no longer be defined simply by whether a company can produce SiC ceramics, but by whether it can consistently control the full process chain, including powder selection, formulation, forming, sintering, precision machining, surface finishing, and cleanliness management.

On the supply side, leading overseas players still hold advantages in proprietary material grades, semiconductor-grade cleanliness, complex structural components, and long-term customer qualification. Chinese suppliers are catching up rapidly in reaction-bonded silicon carbide, large thermal-processing parts, desulfurization nozzles, mechanical seal components, and selected semiconductor equipment localization opportunities. The core industry barriers lie in sintering shrinkage control, batch consistency, crack and defect control, machining precision, surface roughness, cleanliness, and downstream qualification cycles.

Overall, the sintered silicon carbide ceramics market is likely to show a structure in which traditional industrial applications provide stable baseline demand, advanced equipment applications increase product value, and semiconductor and new energy

applications drive material and process upgrades. Competitive differentiation will increasingly shift from production capacity alone to material systems, processing precision, application certification, and long-term binding with end customers.

This report studies the global Sintered Silicon Carbide (SSiC) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Sintered Silicon Carbide (SSiC) and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Sintered Silicon Carbide (SSiC) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Sintered Silicon Carbide (SSiC) total production and demand, 2021-2032, (K Units)

Global Sintered Silicon Carbide (SSiC) total production value, 2021-2032, (USD Million)

Global Sintered Silicon Carbide (SSiC) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Sintered Silicon Carbide (SSiC) consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Sintered Silicon Carbide (SSiC) domestic production, consumption, key domestic manufacturers and share

Global Sintered Silicon Carbide (SSiC) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Sintered Silicon Carbide (SSiC) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Sintered Silicon Carbide (SSiC) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Sintered Silicon Carbide (SSiC) market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Kyocera, CoorsTek, ASML (Berliner Glas), Saint-Gobain, Japan Fine Ceramics, Mersen, CeramTec, Ferrotec, Kallex Company, Shaanxi UDC Materials Technology Co.,Ltd, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Sintered Silicon Carbide (SSiC) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Sintered Silicon Carbide (SSiC) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Sintered Silicon Carbide (SSiC) Market, Segmentation by Type:

Reaction Bonded (RB) SiC

Pressureless Sintered SiC

Recrystallized SiC

Others

Global Sintered Silicon Carbide (SSiC) Market, Segmentation by Application:

Pharmaceutical & Biotechnology

CROs, CDMOs & Contract Research Organizations

Academic & Research Institutes

Hospitals & Medical Centers

Cell & Gene Therapy / Regenerative Medicine Companies

Other

Companies Profiled:

Kyocera

CoorsTek

ASML (Berliner Glas)

Saint-Gobain

Japan Fine Ceramics

Mersen

CeramTec

Ferrotec

Kallex Company

Shaanxi UDC Materials Technology Co.,Ltd

Sanzer (Shanghai) New Materials Technology Co., Ltd.

Shandong Jinhong New Materials Co., Ltd

Ningbo Flk Technology Co., Ltd

JJISCO

John Crane

Morgan Advanced Materials

3M

IBIDEN

Schunk

IPS Ceramics

ASUZAC

Shandong Huamei New Material Technology

Shantian New Materials

Coherent

Blasch Precision Ceramics, Inc

Key Questions Answered:

1. How big is the global Sintered Silicon Carbide (SSiC) market?
2. What is the demand of the global Sintered Silicon Carbide (SSiC) market?
3. What is the year over year growth of the global Sintered Silicon Carbide (SSiC) market?
4. What is the production and production value of the global Sintered Silicon Carbide

(SSiC) market?

5. Who are the key producers in the global Sintered Silicon Carbide (SSiC) market?

6. What are the growth factors driving the market demand?

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