

Global Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC) market size is expected to reach \$ 2180 million by 2032, rising at a market growth of 6.8% CAGR during the forecast period (2026-2032).

Silicon-infiltrated reaction-bonded silicon carbide (SiSiC/RBSC) is a composite material formed by infiltrating liquid silicon into a compacted mixture of silicon carbide and carbon; the silicon reacts with the carbon to generate new SiC, which bonds the original particles together. Characterized by low porosity and minimal outgassing, the material offers high specific stiffness, wear resistance, corrosion resistance, high-temperature stability, and good electrical conductivity (reducing static electricity accumulation), making it suitable for precision structural components and high-performance ceramic parts.

Upstream components of the supply chain include silicon carbide powder, graphite/carbon sources, metallic silicon, binders, molds, sintering furnaces, silicon infiltration furnaces, and precision machining equipment. Downstream applications include kiln furniture, heat exchangers, seal rings, nozzles, roller rods, semiconductor equipment, chemical pumps and valves, and ballistic armor.

The global market price for SiSiC/RBSC is approximately \$21,000 per ton; global sales volume is around 64,000 tons, with an annual production capacity of 70,000-85,000 tons and an industry profit margin of approximately 28%.

This report studies the global Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC) 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 Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC) total production and demand, 2021-2032, (Tons)

Global Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC) total production value, 2021-2032, (USD Million)

Global Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC) consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC) domestic production, consumption, key domestic manufacturers and share

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Global Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC) 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 CoorsTek, Kyocera, CeramTec Industrial, Saint-Gobain, Schunk, Morgan Advanced Materials, Coherent, SGL Carbon, Blasch Precision Ceramics, Jiangsu Sanzer New Materials, 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 Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) 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 Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC) Market, Segmentation by Type:

Vacuum Silicon-infiltrated SiSiC

Pressure-assisted Silicon-infiltrated SiSiC

Capillary Silicon-infiltrated SiSiC

Others

Global Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC) Market,
Segmentation by Product Form:

SiSiC Plate

SiSiC Tube

SiSiC Beam

SiSiC Roller

SiSiC Nozzle

SiSiC Seal Ring

SiSiC Heat Exchanger Component

SiSiC Structural Component

Global Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC) Market,
Segmentation by Surface Treatment:

As-sintered SiSiC

Ground SiSiC

Lapped SiSiC

Polished SiSiC

Coated SiSiC

Precision-machined SiSiC

Global Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC) Market, Segmentation by Application:

Mechanical Seal

Chemical Corrosion-resistant

Kiln Furniture

Semiconductor

Armor

Companies Profiled:

CoorsTek

Kyocera

CeramTec Industrial

Saint-Gobain

Schunk

Morgan Advanced Materials

Coherent

SGL Carbon

Blasch Precision Ceramics

Jiangsu Sanzer New Materials

Shandong Huamei New Materials

Ningbo Vulcan

Shandong Jinhong New Material

Key Questions Answered:

1. How big is the global Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC) market?
2. What is the demand of the global Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC) market?
3. What is the year over year growth of the global Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC) market?
4. What is the production and production value of the global Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC) market?
5. Who are the key producers in the global Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC) market?
6. What are the growth factors driving the market demand?

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