

Global Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC) 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 Reaction-bonded Silicon Carbide (SiSiC/RBSC) market size was valued at US\$ 1383 million in 2025 and is forecast to a readjusted size of US\$ 2180 million by 2032 with a CAGR of 6.8% during review period.

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 is a detailed and comprehensive analysis for global Silicon-infiltrated

Reaction-bonded Silicon Carbide (SiSiC/RBSC) 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 Reaction-bonded Silicon Carbide (SiSiC/RBSC) market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC) market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), 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 Reaction-bonded Silicon Carbide (SiSiC/RBSC)

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 Reaction-bonded Silicon

Carbide (SiSiC/RBSC) 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 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.

Market Segmentation

Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC) 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

Vacuum Silicon-infiltrated SiSiC

Pressure-assisted Silicon-infiltrated SiSiC

Capillary Silicon-infiltrated SiSiC

Others

Market segment by Product Form

SiSiC Plate

SiSiC Tube

SiSiC Beam

SiSiC Roller

SiSiC Nozzle

SiSiC Seal Ring

SiSiC Heat Exchanger Component

SiSiC Structural Component

Market segment by Surface Treatment

As-sintered SiSiC

Ground SiSiC

Lapped SiSiC

Polished SiSiC

Coated SiSiC

Precision-machined SiSiC

Market segment by Application

Mechanical Seal

Chemical Corrosion-resistant

Kiln Furniture

Semiconductor

Armor

Major players covered

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

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 Reaction-bonded Silicon Carbide (SiSiC/RBSC) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC), with price, sales quantity, revenue, and global market share of Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC) from 2021 to 2026.

Chapter 3, the Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC) 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 Reaction-bonded Silicon Carbide (SiSiC/RBSC) 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 Reaction-bonded Silicon Carbide (SiSiC/RBSC).

Chapter 14 and 15, to describe Silicon-infiltrated Reaction-bonded Silicon Carbide (SiSiC/RBSC) sales channel, distributors, customers, research findings and conclusion.

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