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# Global Reaction-Bonded Silicon Carbide Seal Ring Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Reaction-Bonded Silicon Carbide Seal Ring market size is expected to reach $ 120 million by 2032, rising at a market growth of 4.1% CAGR during the forecast period (2026-2032).

Reaction-bonded silicon carbide (RBSC) sealing rings are manufactured by first creating a porous green body from silicon carbide powder, a carbon source, and molding additives. This body undergoes molten silicon infiltration, where free carbon reacts with the silicon to form new silicon carbide; this new material, combined with the original silicon carbide particles and a small amount of residual silicon, creates a dense SiSiC material. The final mechanical seal rotary or stationary rings are produced through diamond grinding, face lapping, and polishing. These products feature high hardness, excellent thermal conductivity, a low coefficient of thermal expansion, wear resistance, and thermal shock resistance, making them suitable for mechanical seals in industrial pumps, reactors, agitators, and pressure screens.

Upstream raw materials primarily include high-purity ?-SiC powder, carbon sources (such as carbon black or graphite), metallic silicon, temporary binders (such as phenolic resin), and processing aids like dispersants, lubricants, and granulation additives; finishing processes require diamond grinding wheels, diamond micropowder, lapping plates, and polishing fluids. The production process typically involves batch mixing, spray granulation, dry pressing or isostatic pressing, debinding, pre-machining, vacuum silicon infiltration, cylindrical grinding, and precision lapping of the sealing face. Downstream, mechanical seal manufacturers assemble these rings with mating rings (made of carbon-graphite, pressureless-sintered silicon carbide, or cemented carbide) along with springs, auxiliary seals, and metal housings to create complete mechanical seal assemblies, which are ultimately installed in rotating fluid equipment such as

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industrial pumps, reactors, and mixing machinery.

In 2025, global sales volume for reaction-bonded silicon carbide sealing rings is approximately 5.5 million units, with ex-factory prices typically ranging from $5 to $30 per unit. Major manufacturers achieve gross profit margins of approximately 28% to 40%.

## Report Scope

This report studies the global Reaction-Bonded Silicon Carbide Seal Ring production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Reaction-Bonded Silicon Carbide Seal Ring 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 Reaction-Bonded Silicon Carbide Seal Ring that contribute to its increasing demand across many markets.

## Highlights and key features of the study

Global Reaction-Bonded Silicon Carbide Seal Ring total production and demand, 2021-2032, (K Units)

Global Reaction-Bonded Silicon Carbide Seal Ring total production value, 2021-2032, (USD Million)

Global Reaction-Bonded Silicon Carbide Seal Ring production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Reaction-Bonded Silicon Carbide Seal Ring consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Reaction-Bonded Silicon Carbide Seal Ring domestic production, consumption, key domestic manufacturers and share

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Global Reaction-Bonded Silicon Carbide Seal Ring production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Reaction-Bonded Silicon Carbide Seal Ring production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Reaction-Bonded Silicon Carbide Seal Ring production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Reaction-Bonded Silicon Carbide Seal Ring 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 Schunk Carbon Technology, CoorsTek, CeramTec, Carborundum Universal, Vulcan Seals, Ningbo Volken Technology Group, Zhejiang Dongxin New Material Technology, Joint Power Shanghai Seals, Ningbo Donglian Mechanical Seal, 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 Reaction-Bonded Silicon Carbide Seal Ring 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 Reaction-Bonded Silicon Carbide Seal Ring Market, By Region:

United States

China

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Europe

Japan

South Korea

ASEAN

India

Rest of World

## Market Segmentation

### Global Reaction-Bonded Silicon Carbide Seal Ring Market, Segmentation by Type:

Rotary Ring

Stationary Ring

### Global Reaction-Bonded Silicon Carbide Seal Ring Market, Segmentation by Cross-sectional Structure:

Flat Ring

Stepped Ring

L-shaped Ring

Others

### Global Reaction-Bonded Silicon Carbide Seal Ring Market, Segmentation by Application:

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Chemical

Water Treatment

Pulp and Paper

Power Generation

Mining and Metallurgy

Other

## Companies Profiled:

Schunk Carbon Technology

CoorsTek

CeramTec

Carborundum Universal

Vulcan Seals

Ningbo Volken Technology Group

Zhejiang Dongxin New Material Technology

Joint Power Shanghai Seals

Ningbo Donglian Mechanical Seal

## Key Questions Answered

1. How big is the global Reaction-Bonded Silicon Carbide Seal Ring market?
2. What is the demand of the global Reaction-Bonded Silicon Carbide Seal Ring

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market?
3. What is the year over year growth of the global Reaction-Bonded Silicon Carbide Seal Ring market?
4. What is the total value of the global Reaction-Bonded Silicon Carbide Seal Ring market?
5. Who are the Major Players in the global Reaction-Bonded Silicon Carbide Seal Ring market?
6. What are the growth factors driving the market demand?

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