

Global Reaction-Bonded Silicon Carbide Seal Ring Market Growth 2026-2032

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Abstracts

The global Reaction-Bonded Silicon Carbide Seal Ring market size is predicted to grow from US\$ 86.28 million in 2025 to US\$ 116 million in 2032; it is expected to grow at a CAGR of 4.4% from 2026 to 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 α -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

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%.

United States market for Reaction-Bonded Silicon Carbide Seal Ring is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Reaction-Bonded Silicon Carbide Seal Ring is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Reaction-Bonded Silicon Carbide Seal Ring is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Reaction-Bonded Silicon Carbide Seal Ring players cover Schunk Carbon Technology, CoorsTek, CeramTec, Carborundum Universal, Vulcan Seals, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the "Reaction-Bonded Silicon Carbide Seal Ring Industry Forecast" looks at past sales and reviews total world Reaction-Bonded Silicon Carbide Seal Ring sales in 2025, providing a comprehensive analysis by region and market sector of projected Reaction-Bonded Silicon Carbide Seal Ring sales for 2026 through 2032. With Reaction-Bonded Silicon Carbide Seal Ring sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Reaction-Bonded Silicon Carbide Seal Ring industry.

This Insight Report provides a comprehensive analysis of the global Reaction-Bonded Silicon Carbide Seal Ring landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Reaction-Bonded Silicon Carbide Seal Ring portfolios and capabilities,

market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Reaction-Bonded Silicon Carbide Seal Ring market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Reaction-Bonded Silicon Carbide Seal Ring and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Reaction-Bonded Silicon Carbide Seal Ring.

This report presents a comprehensive overview, market shares, and growth opportunities of Reaction-Bonded Silicon Carbide Seal Ring market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Rotary Ring

Stationary Ring

Segmentation by Cross-sectional Structure:

Flat Ring

Stepped Ring

L-shaped Ring

Others

Segmentation by Application:

Chemical

Water Treatment

Pulp and Paper

Power Generation

Mining and Metallurgy

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Reaction-Bonded Silicon Carbide Seal Ring market?

What factors are driving Reaction-Bonded Silicon Carbide Seal Ring market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Reaction-Bonded Silicon Carbide Seal Ring market opportunities vary by end market size?

How does Reaction-Bonded Silicon Carbide Seal Ring break out by Type, by Application?

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