

Global Silicon Nitride Bonded Silicon Carbide Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Silicon Nitride Bonded Silicon Carbide market size is expected to reach \$ 892 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032).

In 2025, global Silicon nitride bonded silicon carbide production reached approximately 66.7 kilotons, the average price is 9300 usd/ton. Silicon nitride bonded silicon carbide consists of silicon nitride bonded silicon carbide (SiC). Nitride-bonded SiC generally has lower wear and corrosion resistance than sintered and reaction-bonded SiC materials.

Market Concentration and Key Players:

Internationally, silicon nitride bonded silicon carbide has a high degree of market concentration, mainly concentrated in developed countries in Europe. For example, Calix Ceramic Solutions and Schunk Ingenieurkeramik and other large manufacturers; from the domestic point of view, silicon nitride bonded silicon carbide still has a lot of room for development.

Manufacturing Processes and Market Trends:

Silicon nitride bonded silicon carbide is a high performance composite material formed by combining silicon nitride and silicon carbide through a special process. The core of its manufacturing process is reaction sintering method. The method first mixes silicon carbide particles and metal silicon powder according to a specific ratio, and then sinters at a temperature of 1350 to 1450 degrees Celsius in a nitrogen atmosphere. In this process, silicon powder reacts with nitrogen to generate silicon nitride, and silicon carbide particles are firmly bonded into a whole. The process ensures material properties by accurately controlling nitriding gas pressure and furnace atmosphere, and realizes self-densification of the green body by using the molar volume increase of silicon nitride generated by the reaction of about 22%, with almost no shrinkage. In addition, the density and strength of the material can be further improved by hot pressing sintering and other processes.

At present, the market scale of this material continues to expand, especially in the traditional industrial fields such as steel and non-ferrous metals. The strong growth momentum in the future will mainly benefit from the demand for engine components, high-performance materials for new energy vehicles and emerging industries such as 5G communications and semiconductors in the aerospace field. Technological innovation will drive the development of materials towards higher performance and lower cost, such as the development of nanoscale materials to improve high temperature performance and corrosion resistance, while the application of green production processes and intelligent manufacturing technologies will also become an important trend. With the global industrial transformation to high-end, silicon nitride bonded silicon carbide application fields are expected to continue to expand, and the market prospects are broad.

This report studies the global Silicon Nitride Bonded Silicon Carbide production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Silicon Nitride Bonded Silicon Carbide total production and demand, 2021-2032, (Kilotons)

Global Silicon Nitride Bonded Silicon Carbide total production value, 2021-2032, (USD Million)

Global Silicon Nitride Bonded Silicon Carbide production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Silicon Nitride Bonded Silicon Carbide consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Silicon Nitride Bonded Silicon Carbide domestic production, consumption, key domestic manufacturers and share

Global Silicon Nitride Bonded Silicon Carbide production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Silicon Nitride Bonded Silicon Carbide production by Shape, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Silicon Nitride Bonded Silicon Carbide production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Silicon Nitride Bonded Silicon Carbide 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 Calix Ceramic Solutions, Schunk Ingenieurkeramik GmbH, Blasch Precision Ceramics, Advanced Ceramic Materials, Silcarb, NGK Insulators, CUMI Super Refractories, Vulcan Refractories, Edgetech Industries, SURTEC Research, 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 Nitride Bonded Silicon Carbide market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) by manufacturer, by Shape, 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 Nitride Bonded Silicon Carbide Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Silicon Nitride Bonded Silicon Carbide Market, Segmentation by Shape:

Powder

Blocky

Others

Global Silicon Nitride Bonded Silicon Carbide Market, Segmentation by Performance:

High Intensity

High Thermal Shock Resistance

High Corrosion Resistance

Global Silicon Nitride Bonded Silicon Carbide Market, Segmentation by Structure:

Dense

Center-hole

High Pass

Global Silicon Nitride Bonded Silicon Carbide Market, Segmentation by Application:

Industrial

Construction Sector

Power Plant

Others

Companies Profiled:

Calix Ceramic Solutions

Schunk Ingenieurkeramik GmbH

Blasch Precision Ceramics

Advanced Ceramic Materials

Silcarb

NGK Insulators

CUMI Super Refractories

Vulcan Refractories

Edgetech Industries

SURTEC Research

Silicon Carbide Products

AVM Ceramics GmbH

Stanford Advanced Materials

Saint-Gobain

Carborundum Universal Limited

IPS Ceramics

Edgetech Industries

Boinex

Key Questions Answered:

1. How big is the global Silicon Nitride Bonded Silicon Carbide market?
2. What is the demand of the global Silicon Nitride Bonded Silicon Carbide market?
3. What is the year over year growth of the global Silicon Nitride Bonded Silicon Carbide market?
4. What is the production and production value of the global Silicon Nitride Bonded

Silicon Carbide market?

5. Who are the key producers in the global Silicon Nitride Bonded Silicon Carbide market?

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

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