

Global Nitride Bonded Silicon Carbide Market Growth 2026-2032

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Abstracts

The global Nitride Bonded Silicon Carbide market size is predicted to grow from US\$ 588 million in 2025 to US\$ 938 million in 2032; it is expected to grow at a CAGR of 7.0% from 2026 to 2032.

Nitride Bonded Silicon Carbide (NBSC) is a high-performance refractory and structural ceramic material produced by bonding silicon carbide (SiC) grains together through the reaction of metallic silicon with nitrogen at elevated temperatures, forming a silicon nitride (Si₃N₄) bonding phase. This combination provides excellent mechanical strength, thermal shock resistance, wear resistance, oxidation resistance, and dimensional stability at high temperatures. The supply chain begins upstream with raw materials such as silicon carbide powder or aggregates, high-purity silicon metal, nitrogen gas, binders, and processing additives supplied by silicon carbide and metallurgical silicon producers. Midstream manufacturers formulate, shape, and nitridize the material through pressing, extrusion, casting, or other forming methods followed by high-temperature nitrogen firing to produce NBSC bricks, kiln furniture, burner nozzles, thermocouple protection tubes, wear-resistant liners, and other engineered ceramic components. Downstream industries include iron and steel production, non-ferrous metallurgy, cement manufacturing, power generation, petrochemicals, mining, waste incineration, ceramics production, and advanced industrial processing sectors that require durable materials capable of operating under severe thermal, mechanical, and corrosive conditions. In 2025, global Nitride Bonded Silicon Carbide output was about 210,000 tons with 240,000 tons of capacity, average prices of USD 2,500-7,000 per ton, and gross margins around 30%.

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

Global key Nitride Bonded Silicon Carbide players cover IPS Ceramics (UK), Silicon Carbide Products (USA), Silcarb Recrystallized (India), Glojin Advanced Materials (China), Zibo Qimingxing New Material (China), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

This Insight Report provides a comprehensive analysis of the global Nitride Bonded Silicon Carbide 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 Nitride Bonded Silicon Carbide portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Nitride Bonded Silicon Carbide market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Nitride Bonded Silicon Carbide 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 Nitride Bonded Silicon Carbide.

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

Segmentation by Type:

Low-Bond Grade

Medium-Bond Grade

High-Bond Grade

Segmentation by Cold Crushing Strength:

80?150 MPa

150?250 MPa

>250 MPa

Segmentation by Application:

Steel Manufacturing

Cement Manufacturing

Ceramic Production

Mining Processing

Power Generation

Others

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.

IPS Ceramics (UK)

Silicon Carbide Products (USA)

Silcarb Recrystallized (India)

Glojin Advanced Materials (China)

Zibo Qimingxing New Material (China)

Beijing Baohang Advanced Materials (China)

Hunan Harvest (China)

Hunan Everrich Composite (China)

Hunan Wenchang New Material (China)

Anhui Xiangbang Composite Materials (China)

Key Questions Addressed in this Report

What is the 10-year outlook for the global Nitride Bonded Silicon Carbide market?

What factors are driving Nitride Bonded Silicon Carbide market growth, globally and by region?

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

How do Nitride Bonded Silicon Carbide market opportunities vary by end market size?

How does Nitride Bonded Silicon Carbide break out by Type, by Application?

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