

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

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## Abstracts

The global Nitride Bonded Silicon Carbide market size is expected to reach \$ 965 million by 2032, rising at a market growth of 6.5% CAGR during the forecast period (2026-2032).

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 (Si<sub>3</sub>N<sub>4</sub>) 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%.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global 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 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), 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 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 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 Nitride Bonded Silicon Carbide Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Nitride Bonded Silicon Carbide Market, Segmentation by Type:

Low-Bond Grade

Medium-Bond Grade

High-Bond Grade

### Global Nitride Bonded Silicon Carbide Market, Segmentation by Cold Crushing Strength:

80?150 MPa

150?250 MPa

>250 MPa

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

Steel Manufacturing

Cement Manufacturing

Ceramic Production

Mining Processing

Power Generation

Others

#### Companies Profiled:

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 Answered:

1. How big is the global Nitride Bonded Silicon Carbide market?
2. What is the demand of the global Nitride Bonded Silicon Carbide market?
3. What is the year over year growth of the global Nitride Bonded Silicon Carbide market?
4. What is the production and production value of the global Nitride Bonded Silicon Carbide market?
5. Who are the key producers in the global Nitride Bonded Silicon Carbide market?
6. What are the growth factors driving the market demand?

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