

# Global Atmospheric Pressure Sintered Silicon Carbide Ceramics Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Atmospheric Pressure Sintered Silicon Carbide Ceramics market size is expected to reach \$ 4596 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

Atmospheric pressure sintered silicon carbide ceramics means that samples of different shapes and sizes can be densified and sintered at 2000-2150° by adding appropriate sintering aids without applying external pressure, that is, usually under 1.01×10<sup>5</sup> Pa pressure and inert atmosphere.

Atmospheric pressure sintered SiC ceramics are typically made from high-purity SiC powder plus sintering aids (often non-oxide aids for solid-state densification, and/or oxide aid systems for liquid-phase sintering), together with organic binders/plasticizers, dispersants/solvents for milling & shaping, and process consumables such as grinding media, furnace fixtures, and inert-atmosphere sintering utilities (e.g., inert gas) followed by diamond machining when needed. Downstream, SSiC is widely used in tribological and corrosion/erosion environments, such as mechanical seals, bearings, pump/valve parts, wear parts, heat exchangers, and semiconductor wafer-processing equipment components, and in some cases ballistic/armor structures where high hardness and low density are valued.

In 2025, global sales of atmospheric pressure sintered SiC ceramics reached approximately 119 K tons, with an average global market price of around US\$ 21/kg. Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 25% to 40%.

### Driving Factors:

#### Excellent product performance

Silicon carbide ceramics have excellent properties such as oxidation resistance, high temperature strength, chemical stability, thermal shock resistance, thermal conductivity and good air tightness. There are almost no substitutes on the market that can easily replace silicon carbide ceramics.

#### Huge market demand

Silicon carbide ceramics are widely used, with a huge market size and rigid demand.

#### Technological progress drive

With the increase of market entrants, related R&D investment will also increase simultaneously, and will further promote technological progress and industry development.

### Restrictive Factors:

#### Market access barriers

Downstream industries generally do not easily change suppliers. Many companies maintain long-term and stable cooperative relationships. New entrants are difficult to achieve rapid development in the industry without certification of high-quality customers in related industries.

#### Technology and experience barriers

Silicon carbide ceramics have very high technical requirements. The rapid development of downstream pan-semiconductor and other industries has made related technology iterations very rapid. Personnel experience and proficiency in the operation of production equipment will also affect the manufacturing level of enterprises. Enterprises need to accumulate relevant technologies and experience in mass production practices for a long time, and understand customer needs in a timely manner to continuously improve related formulas and production processes.

#### Capital and scale barriers

In order to maintain the leading technology and market competitiveness of products, silicon carbide ceramic companies need to continue to invest in research and development, which requires a large amount of capital. In the initial stage, companies need to invest a lot of money in factory construction and purchase of production equipment, and give full play to the scale effect of production through reasonable and scientific scheduling of production shifts. Due to the large number of models of ceramic material parts, the specific applications and performance requirements are different, and new products face the risk of R&D failure. Without sufficient financial support, it is difficult for new entrants to develop mature products and form a certain scale of operation, and they cannot compete effectively with existing companies in the industry.

This report studies the global Atmospheric Pressure Sintered Silicon Carbide Ceramics production, demand, key manufacturers, and key regions.

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

### **Highlights and key features of the study**

Global Atmospheric Pressure Sintered Silicon Carbide Ceramics total production and demand, 2021-2032, (Tons)

Global Atmospheric Pressure Sintered Silicon Carbide Ceramics total production value, 2021-2032, (USD Million)

Global Atmospheric Pressure Sintered Silicon Carbide Ceramics production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Atmospheric Pressure Sintered Silicon Carbide Ceramics consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Atmospheric Pressure Sintered Silicon Carbide Ceramics domestic production, consumption, key domestic manufacturers and share

Global Atmospheric Pressure Sintered Silicon Carbide Ceramics production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Atmospheric Pressure Sintered Silicon Carbide Ceramics production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Atmospheric Pressure Sintered Silicon Carbide Ceramics production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Atmospheric Pressure Sintered Silicon Carbide Ceramics 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 Saint-Gobain, Kyocera, CoorsTek, CeramTec, 3M, Morgan Advanced Materials, Schunk, Mersen, IPS Ceramics, ASUZAC, 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 Atmospheric Pressure Sintered Silicon Carbide Ceramics market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) 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 Atmospheric Pressure Sintered Silicon Carbide Ceramics Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Atmospheric Pressure Sintered Silicon Carbide Ceramics Market, Segmentation by Type:

Solid State Sintering

Liquid Phase Sintering

Global Atmospheric Pressure Sintered Silicon Carbide Ceramics Market, Segmentation by Sintering Additive System:

Boron-Carbon

Aluminum-Boron-Carbon

Oxide-Based

Global Atmospheric Pressure Sintered Silicon Carbide Ceramics Market, Segmentation by Forming Technology:

Pressing Sintering

Injection Moulding

Extrusion

Casting

Other

Global Atmospheric Pressure Sintered Silicon Carbide Ceramics Market, Segmentation by Application:

Machinery Manufacturing

Metallurgical Industry

Chemical Engineering

Aerospace & Defense

Semiconductor

Automobile

Photovoltaics

Other

Companies Profiled:

Saint-Gobain

Kyocera

CoorsTek

CeramTec

3M

Morgan Advanced Materials

Schunk

Mersen

IPS Ceramics

ASUZAC

Shandong Huamei New Material Technology

Ningbo FLK Technology

Sanzer New Materials Technology

Joint Power Shanghai Seals

Zhejiang Dongxin New Material Technology

Jicheng Advanced Ceramics

Zhejiang Light-Tough Composite Materials

**Key Questions Answered:**

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

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