

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

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## Abstracts

The global Silicon Carbide Rods market size is expected to reach \$ 391 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

Silicon carbide rods are tubular or rod-shaped heating elements made from high-purity silicon carbide (SiC) as the main raw material and sintered at high temperatures. They have advantages such as high operating temperature (up to 1600?), strong oxidation resistance, stable resistance, and long life. They are widely used as core heating elements in ceramics, glass, metallurgy, semiconductors, and laboratory high-temperature electric furnaces. Their working principle is to generate Joule heat in silicon carbide by passing electricity, and a silicon dioxide protective film is generated on the surface under an oxidizing atmosphere, thereby achieving long-term stable operation. Silicon carbide (SiC) heating elements are tubular electric heating elements made primarily from silicon carbide through high-temperature sintering. They are widely used in high-temperature electric furnaces in industries such as ceramics, glass, semiconductors, and lithium battery materials. The upstream of the industry chain includes raw materials such as petroleum coke and quartz sand, as well as energy-intensive sintering equipment. The midstream requires mastering core technologies in formulation, molding, and recrystallization sintering. The downstream covers industrial kiln manufacturers and high-end manufacturing sectors such as new energy and electronics. As of 2025, the average price of domestically produced SiC heating elements was \$1,200 per piece (depending on specifications and performance), while imported products could be 2-4 times more expensive. The overall industry gross profit margin was between 25% and 55%, with higher gross profit margins for high-end applications due to technological barriers and customized requirements. Driven by the 'dual carbon' (silicon carbide and silicon carbide) and advanced manufacturing, market demand continued to grow steadily. In 2024, global SiC heating element production was approximately 5,255,000 pieces, with a global average market price of approximately

US\$45 per piece. Global SiC heating element production capacity was approximately 7,000,000 pieces in 2024.

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

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

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

Global Silicon Carbide Rods total production and demand, 2021-2032, (K Units)

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

Global Silicon Carbide Rods production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Silicon Carbide Rods consumption by region & country, CAGR, 2021-2032 & (K Units)

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

Global Silicon Carbide Rods production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Silicon Carbide Rods production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Silicon Carbide Rods production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Silicon Carbide Rods 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 Tokai Konetsu Kogyo, Sandvik, American Elements, CoorsTek Corporation, I Squared R Element Co., Inc., Noritake, Zhengzhou Ruisheng, Zhengzhou Shibo Nonferrous Metals Products Co., Ltd., Insulcon, SIM Srl, 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 Carbide Rods market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) 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 Silicon Carbide Rods Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Silicon Carbide Rods Market, Segmentation by Type:

Straight Silicon Carbide Rod

U-shaped Silicon Carbide Rod

W-shaped Silicon Carbide Rod

Spiral Silicon Carbide Rod

Global Silicon Carbide Rods Market, Segmentation by Application Furnace Type:

Laboratory Furnace Heating Rod

Industrial Electric Furnace Heating Rod

Sintering Furnace Heating Rod

Glass Furnace Heating Rod

Global Silicon Carbide Rods Market, Segmentation by Application:

Ceramic & Refractory Sintering

Glass Melting Furnaces

Powder Metallurgy Heating

Semiconductor & New Material Processing

**Companies Profiled:**

Tokai Konetsu Kogyo

Sandvik

American Elements

CoorsTek Corporation

I Squared R Element Co., Inc.

Noritake

Zhengzhou Ruisheng

Zhengzhou Shibo Nonferrous Metals Products Co., Ltd.

Insulcon

SIM Srl

Volton

Zhengzhou Songshan Enterprise Group

Jiangsu Huanneng Silicon Carbon Ceramics Co., Ltd.

**Key Questions Answered:**

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

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