

Global Silicon Carbide Rods Market Growth 2026-2032

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Abstracts

The global Silicon Carbide Rods market size is predicted to grow from US\$ 246 million in 2025 to US\$ 380 million in 2032; it is expected to grow at a CAGR of 6.6% from 2026 to 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 ?80–1,200 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.

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

Global key Silicon Carbide Rods players cover Tokai Konetsu Kogyo, Sandvik, American Elements, CoorsTek Corporation, I Squared R Element Co., Inc., 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 "Silicon Carbide Rods Industry Forecast" looks at past sales and reviews total world Silicon Carbide Rods sales in 2025, providing a comprehensive analysis by region and market sector of projected Silicon Carbide Rods sales for 2026 through 2032. With Silicon Carbide Rods sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Silicon Carbide Rods industry.

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

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

This report presents a comprehensive overview, market shares, and growth

opportunities of Silicon Carbide Rods market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Straight Silicon Carbide Rod

U-shaped Silicon Carbide Rod

W-shaped Silicon Carbide Rod

Spiral Silicon Carbide Rod

Segmentation by Application Furnace Type:

Laboratory Furnace Heating Rod

Industrial Electric Furnace Heating Rod

Sintering Furnace Heating Rod

Glass Furnace Heating Rod

Segmentation by Application:

Ceramic & Refractory Sintering

Glass Melting Furnaces

Powder Metallurgy Heating

Semiconductor & New Material Processing

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.

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 Addressed in this Report

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

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

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

How do Silicon Carbide Rods market opportunities vary by end market size?

How does Silicon Carbide Rods break out by Type, by Application?

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