

Global Silicon Carbide Rods Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Silicon Carbide Rods market size was valued at US\$ 258 million in 2025 and is forecast to a readjusted size of US\$ 391 million by 2032 with a CAGR of 6.2% during review period.

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 is a detailed and comprehensive analysis for global Silicon Carbide Rods market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Silicon Carbide Rods market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Silicon Carbide Rods market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Silicon Carbide Rods market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Silicon Carbide Rods market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Silicon Carbide Rods

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Silicon Carbide Rods market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Silicon Carbide Rods market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Straight Silicon Carbide Rod

U-shaped Silicon Carbide Rod

W-shaped Silicon Carbide Rod

Spiral Silicon Carbide Rod

Market segment by Application Furnace Type

Laboratory Furnace Heating Rod

Industrial Electric Furnace Heating Rod

Sintering Furnace Heating Rod

Glass Furnace Heating Rod

Market segment by Application

Ceramic & Refractory Sintering

Glass Melting Furnaces

Powder Metallurgy Heating

Semiconductor & New Material Processing

Major players covered

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.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Silicon Carbide Rods product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silicon Carbide Rods, with price, sales quantity, revenue, and global market share of Silicon Carbide Rods from 2021 to 2026.

Chapter 3, the Silicon Carbide Rods competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Silicon Carbide Rods breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021

to 2026.and Silicon Carbide Rods market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Silicon Carbide Rods.

Chapter 14 and 15, to describe Silicon Carbide Rods sales channel, distributors, customers, research findings and conclusion.

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