

Global ED Straight Silicon Carbide Rod 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 ED Straight Silicon Carbide Rod market size was valued at US\$ 69.51 million in 2025 and is forecast to a readjusted size of US\$ 103 million by 2032 with a CAGR of 5.7% during review period.

In 2025, global production of ED straight silicon carbide rods reached 1.93 million units, with an estimated average selling price of US\$35 per unit. ED straight silicon carbide rods are not irregularly shaped or curved structures; they are one of the most common straight rod-type heating elements among silicon carbide rods. Made primarily from high-purity, green silicon carbide, they undergo processes such as blank preparation, high-temperature silaneization, recrystallization, end-resistor low-resistivity treatment, and surface electrode processing. They typically consist of a central heating section and two cold ends. The cold ends undergo low-resistance treatment to reduce terminal temperature rise, decrease energy consumption, and extend service life. Major applications include box furnaces, tube furnaces, bogie hearth furnaces, pusher furnaces, roller kilns, tunnel kilns, ceramic sintering furnaces, glass annealing furnaces, powder metallurgy furnaces, magnetic material sintering furnaces, lithium battery material sintering furnaces, electronic ceramic furnaces, laboratory high-temperature furnaces, and various industrial heat treatment equipment. They are among the silicon carbide rod products with the highest degree of standardization and the most stable replacement demand. The upstream of the industry chain mainly includes green silicon carbide micro powder, petroleum coke, quartz sand/silicon source, carbon materials, binders, metallic silicon, aluminum spraying materials, ceramic insulating parts, and electrode clamps; the midstream includes mixing, extrusion or molding, high-temperature silaneization/recrystallization, cold-end treatment, resistance sorting, end metallization, testing, and packaging; the downstream includes industrial furnace

manufacturers, ceramic and refractory material companies, glass and fiberglass companies, powder metallurgy companies, lithium battery and electronic material companies, and laboratory equipment manufacturers. Gross profit margin is approximately 20%-40%.

This report is a detailed and comprehensive analysis for global ED Straight Silicon Carbide Rod 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 ED Straight Silicon Carbide Rod market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global ED Straight Silicon Carbide Rod 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 ED Straight Silicon Carbide Rod 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 ED Straight Silicon Carbide Rod 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 ED Straight Silicon Carbide Rod

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 ED Straight Silicon Carbide Rod 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 Carbon, Sandvik, Kanthal, I Squared R Element, The Insulcon Group, Silcarb, Bergh?tten GmbH, Dengfeng Minghui High Temperature Components, Zhengzhou Risesun Materials Tech, Dengfeng Chuangwei Carbide Products, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

ED Straight Silicon Carbide Rod 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

Standard ED Straight Rod Type

Reinforced Cold End ED Type

Equal Diameter High-Density ED Type

Custom Long Size ED Type

Market segment by Temperature Rating

1400? Grade

1500? Grade

1600?1625? High Temperature Grade

Market segment by Dimensions

Small Diameter

Medium Diameter

Large Diameter

Market segment by Electrical Parameter

Low Power

Medium Power

High Power

Market segment by Application

Pusher Furnaces & Bogie Hearth Furnaces

Box Furnaces

Industrial Furnaces

Laboratory High-Temperature Furnaces

Others

Major players covered

Tokai Carbon

Sandvik

Kanthal

I Squared R Element

The Insulcon Group

Silcarb

Bergh?tten GmbH

Dengfeng Minghui High Temperature Components

Zhengzhou Risesun Materials Tech

Dengfeng Chuangwei Carbide Products

Dengfeng Jinyu Electrothermal Material

Zhengzhou Mingxin Electric Heating Material

Zibo Wanguo Silicon Carbon Rod

Zhengzhou Shibo Nonferrous Metals Products

Zhengzhou Songshan Heating Elements

Jiangsu Huanneng Silicon-Carbon Ceramics

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 ED Straight Silicon Carbide Rod product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the ED Straight Silicon Carbide Rod 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 ED Straight Silicon Carbide Rod 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 ED Straight Silicon Carbide Rod.

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

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