

Global Silicon Carbide Ceramics Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Silicon Carbide Ceramics market size was valued at US\$ 6224 million in 2024 and is forecast to a readjusted size of USD 10370 million by 2031 with a CAGR of 7.7% during review period.

Silicon carbide ceramics mainly use silicon carbide powder as raw materials. Silicon Carbide has properties remarkably similar to those of diamond – it is one of the lightest, hardest, and strongest technical ceramic materials and has exceptional thermal conductivity, resistance to acids, and low thermal expansion. Silicon Carbide is an excellent material to use when physical wear is an important consideration because it exhibits good erosion and abrasive resistance, making it useful in a variety of applications such as spray nozzles, shot blast nozzles and cyclone components.

Global key manufacturers of Silicon Carbide Ceramics include Saint-Gobain, CoorsTek, Kyocera, IBIDEN and 3M, etc. the global five largest companies occupied for a share about 23%. North America is the largest market, with a share of 26%, followed by Europe and China, with share 24% and 24%, separately. In terms of product type, Reaction Bonded Silicon Carbide occupies the largest share of the total market, about 50%. And in terms of application, the largest application is Machinery Manufacturing, with a share about 22 percent.

This report is a detailed and comprehensive analysis for global Silicon Carbide Ceramics 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 Ceramics market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Silicon Carbide Ceramics market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Silicon Carbide Ceramics market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Silicon Carbide Ceramics market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2020-2025

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 Ceramics

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 Ceramics 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 Saint-Gobain, Kyocera, CoorsTek, CeramTec, Tokai Carbon, 3M, IBIDEN, Morgan Advanced Materials, Schunk, Mersen, etc.

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

Market Segmentation

Silicon Carbide Ceramics market is split by Type and by Application. For the period 2020-2031, 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

Reaction Bonded Silicon Carbide

Sintered Silicon Carbide

Recrystallized Silicon Carbide

CVD Silicon Carbide

Others

Market segment by Application

Machinery Manufacturing

Metallurgical Industry

Chemical Engineering

Aerospace & Defense

Semiconductor

Automobile

Photovoltaics

Others

Major players covered

Saint-Gobain

Kyocera

CoorsTek

CeramTec

Tokai Carbon

3M

IBIDEN

Morgan Advanced Materials

Schunk

Mersen

IPS Ceramics

Ferrotec

Japan Fine Ceramics

KNJ

ASUZAC

Shaanxi UDC

Jinhong New Material

Shandong Huamei New Material Technology

Ningbo FLK Technology

Sanzer New Materials Technology

Joint Power Shanghai Seals

Shantian New Materials

Zhejiang Dongxin New Material Technology

Jicheng Advanced Ceramics

Zhejiang Light-Tough Composite Materials

FCT(Tangshan) New Materials

SSACC China

Weifang Zhida Special 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 Silicon Carbide Ceramics product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silicon Carbide Ceramics, with price,

sales quantity, revenue, and global market share of Silicon Carbide Ceramics from 2020 to 2025.

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

Chapter 4, the Silicon Carbide Ceramics breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Silicon Carbide Ceramics market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Ceramics.

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

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