

# Global Silicon Carbide Ceramics Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Silicon Carbide Ceramics market size was valued at USD 777.7 million in 2023 and is forecast to a readjusted size of USD 915.3 million by 2030 with a CAGR of 2.4% 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 5 largest manufacturers of Silicon Carbide Ceramics are Saint-Gobain, CeramTec, 3M, IBIDEN and Schunk, which make up over 35%. Among them, Saint-Gobain is the leader with about 10% market share.

Europe is the largest market, with a share about 38%, followed by Americas and Asia-Pacific, with the share about 32% and 26%. 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, followed by Chemical Engineering.

The Global Info Research report includes an overview of the development of the Silicon Carbide Ceramics industry chain, the market status of Machinery Manufacturing

(Sintered Silicon Carbide, Reaction Bonded Silicon Carbide), Metallurgical Industry (Sintered Silicon Carbide, Reaction Bonded Silicon Carbide), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Silicon Carbide Ceramics.

Regionally, the report analyzes the Silicon Carbide Ceramics markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Silicon Carbide Ceramics market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Silicon Carbide Ceramics market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Silicon Carbide Ceramics industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (MT), revenue generated, and market share of different by Type (e.g., Sintered Silicon Carbide, Reaction Bonded Silicon Carbide).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Silicon Carbide Ceramics market.

**Regional Analysis:** The report involves examining the Silicon Carbide Ceramics market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Silicon Carbide Ceramics market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Silicon Carbide Ceramics:

**Company Analysis:** Report covers individual Silicon Carbide Ceramics manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Silicon Carbide Ceramics. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Machinery Manufacturing, Metallurgical Industry).

**Technology Analysis:** Report covers specific technologies relevant to Silicon Carbide Ceramics. It assesses the current state, advancements, and potential future developments in Silicon Carbide Ceramics areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Silicon Carbide Ceramics market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Silicon Carbide Ceramics market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

Sintered Silicon Carbide

Reaction Bonded Silicon Carbide

Recrystallized Silicon Carbide

CVD Silicon Carbide

Others

#### Market segment by Application

Machinery Manufacturing

Metallurgical Industry

Chemical Engineering

Aerospace & Defense

Semiconductor

Automobile

Others

#### Major players covered

Saint-Gobain

3M

IBIDEN

CeramTec

Kyocera

CoorsTek

Morgan Advanced Materials

Schunk

Mersen

IPS Ceramics

Ortech

ASUZAC

Fraunhofer IKTS

Shandong Huamei New Material Technology

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Sanzer New Materials Technology

Shantian Abrasive

SSACC China

Zhejiang Dongxin New Material Technology

Ningbo FLK Technology

Shaanxi UDC

FCT(Tangshan) New Materials

Joint Power Shanghai Seals

Luoyang Pengfei Wear Resistant Materials

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, revenue and global market share of Silicon Carbide Ceramics from 2019 to 2024.

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 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Silicon Carbide Ceramics market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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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