

# Global Silicon Carbide Epitaxial Wafer 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 Epitaxial Wafer market size was valued at USD 234.4 million in 2023 and is forecast to a readjusted size of USD 1560.4 million by 2030 with a CAGR of 31.1% during review period.

Epitaxial Wafer is made by adding multi-micrometer thick single silicon carbide crystal layers on top of a polished wafer. Precise control of thickness, doping (carrier concentration) and defect density is required to enable high yielding power devices from a semiconductor fabrication facility. Silicon Carbide Epitaxial Wafer is a wafer of Silicon Carbide made by epitaxial growth (called epitaxy) for use in making semiconductor and photonic device.

The market for Silicon Carbide Epitaxial Wafer is concentrated with players such as Cree (Wolfspeed), II-VI Advanced Materials (Ascatron), Showa Denko K.K.(NSSMC), Epiworld international, SK Siltron(Dupont), TYSiC, STMicroelectronics (Norstel), ROHM (Sicrystal) and so on. Among them, the top 3 manufacturers which include Cree (Wolfspeed), II-VI Advanced Materials (Ascatron), Showa Denko K.K.(NSSMC) are the leader with about 71% revenue market share in 2019.

We divide Silicon Carbide Epitaxial Wafer into 100 mm, 150 mm and 200 mm, 150 mm account for more than 60% revenue share in 2019.

600-1200V SiC Devices remains the largest application field, followed by 1200-3300V SiC Devices and above 3300V SiC Devices.

North America is the largest production area, accounting for 53.38% of the total market share. The Asia-Pacific region is expected to grow faster in the future.

The Global Info Research report includes an overview of the development of the Silicon Carbide Epitaxial Wafer industry chain, the market status of 600-1200V SiC Devices (100mm, 150mm), 1200-3300V SiC Devices (100mm, 150mm), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Silicon Carbide Epitaxial Wafer.

Regionally, the report analyzes the Silicon Carbide Epitaxial Wafer 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 Epitaxial Wafer market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Silicon Carbide Epitaxial Wafer 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 Epitaxial Wafer 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 (K Pcs), revenue generated, and market share of different by Type (e.g., 100mm, 150mm).

**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 Epitaxial Wafer market.

**Regional Analysis:** The report involves examining the Silicon Carbide Epitaxial Wafer 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 Epitaxial Wafer 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 Epitaxial Wafer:

**Company Analysis:** Report covers individual Silicon Carbide Epitaxial Wafer 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 Epitaxial Wafer. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (600-1200V SiC Devices, 1200-3300V SiC Devices).

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

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Silicon Carbide Epitaxial Wafer 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 Epitaxial Wafer 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

100mm

150mm

200mm

#### Market segment by Application

600-1200V SiC Devices

1200-3300V SiC Devices

Above 3300V SiC Devices

#### Major players covered

Cree (Wolfspeed)

II-VI Advanced Materials(Ascatron)

Showa Denko K.K.(NSSMC)

Epiworld international

SK Siltron(Dupont)

TYSiC

STMicroelectronics (Norstel)

ROHM (Sicystal)

#### 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 Epitaxial Wafer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silicon Carbide Epitaxial Wafer, with price, sales, revenue and global market share of Silicon Carbide Epitaxial Wafer from 2019 to 2024.

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

Chapter 4, the Silicon Carbide Epitaxial Wafer 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 Epitaxial Wafer 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 Epitaxial Wafer.

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

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