

# Global SiC-On-Insulator Substrates Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G9D327CAE749EN.html>

Date: February 2024

Pages: 116

Price: US\$ 3,480.00 (Single User License)

ID: G9D327CAE749EN

## Abstracts

According to our (Global Info Research) latest study, the global SiC-On-Insulator Substrates market size was valued at USD million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of % during review period.

Silicon-on-insulator substrate is a semiconductor technology that involves the integration of a silicon carbide (SiC) material onto an insulating substrate. The goal of the technology is to enhance the performance of electronic devices by leveraging the superior properties of SiC, such as high temperature tolerance and efficient energy processing capabilities. Silicon carbide substrates on insulators enable the preparation of high-performance and energy-efficient electronic components, especially in the field of power devices and integrated circuits. By combining the benefits of SiC with an insulating substrate, the technology helps alleviate problems related to power heat dissipation and thermal management, making it of great value in power electronics and advanced semiconductor devices.

The industry trend for SiC-On-Insulator and other substrate technologies was marked by a focus on advancing power electronics and semiconductor devices. There was a growing interest in leveraging SiC's high-performance characteristics for applications in electric vehicles, renewable energy, and industrial systems. The trend included efforts to optimize manufacturing processes, enhance substrate materials, and improve device integration for increased efficiency and reliability. Additionally, research and development were directed towards exploring new applications and scaling up production to meet the rising demand for high-performance semiconductor components.

The Global Info Research report includes an overview of the development of the SiC-On-

Insulator Substrates industry chain, the market status of Power Devices (Semi-insulating SiC Substrates, Conductive SiC Substrates), RF Devices (Semi-insulating SiC Substrates, Conductive SiC Substrates), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of SiC-On-Insulator Substrates.

Regionally, the report analyzes the SiC-On-Insulator Substrates 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 SiC-On-Insulator Substrates market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the SiC-On-Insulator Substrates 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 SiC-On-Insulator Substrates 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 Pieces), revenue generated, and market share of different by Type (e.g., Semi-insulating SiC Substrates, Conductive SiC Substrates).

**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 SiC-On-Insulator Substrates market.

**Regional Analysis:** The report involves examining the SiC-On-Insulator Substrates 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 SiC-On-Insulator Substrates market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to SiC-On-Insulator Substrates:

**Company Analysis:** Report covers individual SiC-On-Insulator Substrates 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 SiC-On-Insulator Substrates. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Power Devices, RF Devices).

**Technology Analysis:** Report covers specific technologies relevant to SiC-On-Insulator Substrates. It assesses the current state, advancements, and potential future developments in SiC-On-Insulator Substrates areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the SiC-On-Insulator Substrates 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

SiC-On-Insulator Substrates 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

Semi-insulating SiC Substrates

Conductive SiC Substrates

### Market segment by Application

Power Devices

RF Devices

Others

#### Major players covered

Wolfspeed

Soitec

Coherent

Ceramicforum.

Precision Micro-optics

Tankeblue Semiconductor

Pam-Xiamen

GlobalWafers

Sicc

Hebei Sylight Crystal

Homray Material & Technology(Suzhou)

#### 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 SiC-On-Insulator Substrates product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of SiC-On-Insulator Substrates, with price, sales, revenue and global market share of SiC-On-Insulator Substrates from 2019 to 2024.

Chapter 3, the SiC-On-Insulator Substrates competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the SiC-On-Insulator Substrates 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 SiC-On-Insulator Substrates 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 SiC-On-Insulator Substrates.

Chapter 14 and 15, to describe SiC-On-Insulator Substrates sales channel, distributors,

customers, research findings and conclusion.

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