

# Global SiC-On-Insulator Substrates Supply, Demand and Key Producers, 2024-2030

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## Abstracts

The global SiC-On-Insulator Substrates market size is expected to reach \$ million by 2030, rising at a market growth of % CAGR during the forecast period (2024-2030).

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.

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.

This report studies the global SiC-On-Insulator Substrates production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for SiC-On-Insulator Substrates, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2023 as the base year. This report explores demand trends and competition, as well as details the characteristics of SiC-On-Insulator Substrates that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global SiC-On-Insulator Substrates total production and demand, 2019-2030, (K Pieces)

Global SiC-On-Insulator Substrates total production value, 2019-2030, (USD Million)

Global SiC-On-Insulator Substrates production by region & country, production, value, CAGR, 2019-2030, (USD Million) & (K Pieces)

Global SiC-On-Insulator Substrates consumption by region & country, CAGR, 2019-2030 & (K Pieces)

U.S. VS China: SiC-On-Insulator Substrates domestic production, consumption, key domestic manufacturers and share

Global SiC-On-Insulator Substrates production by manufacturer, production, price, value and market share 2019-2024, (USD Million) & (K Pieces)

Global SiC-On-Insulator Substrates production by Type, production, value, CAGR, 2019-2030, (USD Million) & (K Pieces)

Global SiC-On-Insulator Substrates production by Application production, value, CAGR, 2019-2030, (USD Million) & (K Pieces).

This reports profiles key players in the global SiC-On-Insulator Substrates market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Wolfspeed, Soitec, Coherent, Ceramicforum., Precision Micro-optics, Tankeblue Semiconductor, Pam-Xiamen, GlobalWafers and Sicc, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World SiC-On-Insulator Substrates market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pieces) and average price (US\$/Piece) by manufacturer, by Type, and by Application. Data is given for the years 2019-2030 by year with 2023 as the base year, 2024 as the estimate year, and 2025-2030 as the forecast year.

Global SiC-On-Insulator Substrates Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global SiC-On-Insulator Substrates Market, Segmentation by Type

Semi-insulating SiC Substrates

Conductive SiC Substrates

## Global SiC-On-Insulator Substrates Market, Segmentation by Application

Power Devices

RF Devices

Others

### Companies Profiled:

Wolfspeed

Soitec

Coherent

Ceramicforum.

Precision Micro-optics

Tankeblue Semiconductor

Pam-Xiamen

GlobalWafers

Sicc

Hebei Sylight Crystal

Homray Material & Technology(Suzhou)

### Key Questions Answered

1. How big is the global SiC-On-Insulator Substrates market?
2. What is the demand of the global SiC-On-Insulator Substrates market?

3. What is the year over year growth of the global SiC-On-Insulator Substrates market?
4. What is the production and production value of the global SiC-On-Insulator Substrates market?
5. Who are the key producers in the global SiC-On-Insulator Substrates market?

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