

# Global Semi-insulating SiC Wafer Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Semi-insulating SiC Wafer market size is expected to reach \$ 805 million by 2032, rising at a market growth of 13.1% CAGR during the forecast period (2026-2032).

In 2025, global production capacity of semi-insulating SiC wafers is approximately 155,000 wafers (6-inch equivalent), with actual output around 120,000 wafers. The average selling price is about US\$ 2,750 per 6-inch wafer. Gross margins generally range from 35%?52%, depending on micropipe density, resistivity level (>10? ??cm), wafer diameter (4-inch / 6-inch), and crystal quality. Semi-insulating SiC wafer refers to a high-resistivity silicon carbide substrate engineered to exhibit extremely low free carrier concentration, typically through vanadium compensation or intrinsic defect control. With resistivity levels exceeding 10? ??cm, these wafers provide excellent electrical isolation and low RF loss characteristics. They are primarily used as substrates for GaN-on-SiC and SiC-based RF and microwave devices, including high-frequency, high-power amplifiers for wireless infrastructure and defense applications.

Upstream includes SiC crystal growth using physical vapor transport (PVT) methods and precision wafer processing. Major global suppliers include Wolfspeed, II-VI Incorporated, SK Siltron, ROHM, and TankeBlue. Downstream applications focus on RF front-end modules, 5G base stations, satellite communications, radar systems, and aerospace electronics.

Semi-insulating SiC wafers serve primarily the RF and microwave semiconductor market rather than power electronics. Their importance lies in supporting GaN-on-SiC HEMT devices used in high-frequency, high-power applications. With global deployment of 5G infrastructure, expansion of satellite communication networks, and rising defense electronics demand, the RF GaN market continues to grow steadily. Semi-insulating SiC

remains the preferred substrate for high-performance RF devices due to superior thermal conductivity and electrical isolation compared with silicon or sapphire alternatives. However, production complexity and crystal growth yield constraints limit supply scalability. Over the next five years, improvements in boule size, defect density reduction, and transition toward 6-inch standardization are expected to enhance cost efficiency and support continued double-digit growth.

This report studies the global Semi-insulating SiC Wafer production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Semi-insulating SiC Wafer and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Semi-insulating SiC Wafer that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Semi-insulating SiC Wafer total production and demand, 2021-2032, (K Wafers)

Global Semi-insulating SiC Wafer total production value, 2021-2032, (USD Million)

Global Semi-insulating SiC Wafer production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Wafers), (based on production site)

Global Semi-insulating SiC Wafer consumption by region & country, CAGR, 2021-2032 & (K Wafers)

U.S. VS China: Semi-insulating SiC Wafer domestic production, consumption, key domestic manufacturers and share

Global Semi-insulating SiC Wafer production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Wafers)

Global Semi-insulating SiC Wafer production by Thickness, production, value, CAGR, 2021-2032, (USD Million) & (K Wafers)

Global Semi-insulating SiC Wafer production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Wafers)

This report profiles key players in the global Semi-insulating SiC Wafer 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, Coherent Corp, ROHM (Sicrystal), SK Siltron CSS, SICC, TankeBlue, Hebei Synlight Crystal, Omeda Semiconductor, Xiamen Powerway, 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 Semi-insulating SiC Wafer market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Wafers) and average price (US\$/Wafer) by manufacturer, by Thickness, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

### Global Semi-insulating SiC Wafer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Semi-insulating SiC Wafer Market, Segmentation by Thickness:

4H

6H

## Global Semi-insulating SiC Wafer Market, Segmentation by Application:

IT & Consumer

LED lighting

Automotive

Industrial

## Companies Profiled:

Wolfspeed

Coherent Corp

ROHM (Sicrystal)

SK Siltron CSS

SICC

TankeBlue

Hebei Synlight Crystal

Omeda Semiconductor

Xiamen Powerway

## Key Questions Answered:

1. How big is the global Semi-insulating SiC Wafer market?
2. What is the demand of the global Semi-insulating SiC Wafer market?
3. What is the year over year growth of the global Semi-insulating SiC Wafer market?
4. What is the production and production value of the global Semi-insulating SiC Wafer market?
5. Who are the key producers in the global Semi-insulating SiC Wafer market?

6. What are the growth factors driving the market demand?

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