

Global Semi-Insulating Silicon Carbide Wafer Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/S661AB224169EN.html>

Date: July 2025

Pages: 107

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

ID: S661AB224169EN

Abstracts

According to our (Global Info Research) latest study, the global Semi-Insulating Silicon Carbide Wafer market size was valued at US\$ 293 million in 2024 and is forecast to a readjusted size of USD 604 million by 2031 with a CAGR of 11.0% during review period.

Silicon carbide is an inorganic substance with the chemical formula SiC. It is made of raw materials such as quartz sand, petroleum coke (or coal coke), and sawdust (salt is needed to produce green silicon carbide) through high-temperature smelting in a resistance furnace. Silicon carbide is a semiconductor that exists in nature in the form of the extremely rare mineral moissanite. Since 1893, it has been mass-produced as powder and crystals for use as abrasives, etc. Among non-oxide high-tech refractory raw materials such as C, N, and B, silicon carbide is the most widely used and economical one, which can be called diamond sand or refractory sand.

Wafer refers to the cutting, grinding, and polishing of crystals along a specific crystal direction to obtain a clean single wafer with specific crystal planes and appropriate electrical, optical, and mechanical properties for growing epitaxial layers. Silicon carbide wafer is the core material of the newly developed wide bandgap semiconductor. The devices made with it have the characteristics of high temperature resistance, high voltage resistance, high frequency, high power, and radiation resistance. It has the advantages of fast switching speed and high efficiency, which can greatly reduce product power consumption, improve energy conversion efficiency, and reduce product volume.

Semi-insulating silicon carbide wafer is a single crystal slice formed by cutting, grinding, polishing, cleaning and other processes of semi-insulating silicon carbide crystal. As an

important raw material for the third-generation semiconductor, single crystal wafer slices can be made into silicon carbide-based radio frequency devices through heteroepitaxial growth and device manufacturing. It is an important basic material for the development of the third-generation semiconductor industry.

By growing a gallium nitride epitaxial layer on a semi-insulating silicon carbide wafer, a silicon carbide-based gallium nitride epitaxial wafer is produced, which can be further made into microwave radio frequency devices such as HEMT and used in information communication, radio detection and other fields.

From the perspective of the global silicon carbide wafer material market, Wolfspeed, Coherent, Rohm, etc. still occupy a dominant position in the industry. However, in recent years, my country's silicon carbide material market has also been very hot. Wafer manufacturers such as CETC, TankeBlue, SICC, Hebei Synlight Crystal, and Sanan Optoelectronics have all achieved mass production. In the global semi-insulating silicon carbide substrate market, Wolfspeed, Coherent and Tianyue Advanced Technology occupy the majority of the global market share.

This report is a detailed and comprehensive analysis for global Semi-Insulating Silicon Carbide Wafer market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Semi-Insulating Silicon Carbide Wafer market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global Semi-Insulating Silicon Carbide Wafer market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global Semi-Insulating Silicon Carbide Wafer market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global Semi-Insulating Silicon Carbide Wafer market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pcs), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Semi-Insulating Silicon Carbide Wafer
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global Semi-Insulating Silicon Carbide Wafer market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Wolfspeed, SK Siltron, SiCrystal, Coherent, Resonac, STMicroelectronics, TankeBlue, SICC, Hebei Synlight Crystal, CETC, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Semi-Insulating Silicon Carbide Wafer market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

4 Inch SiC Wafer

6 Inch SiC Wafer

8 Inch SiC Wafer

Market segment by Application

5G Communication

Radar

Radio Detector

Others

Major players covered

Wolfspeed

SK Siltron

SiCrystal

Coherent

Resonac

STMicroelectronics

TankeBlue

SICC

Hebei Synlight Crystal

CETC

San'an Optoelectronics

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 Semi-Insulating Silicon Carbide Wafer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Semi-Insulating Silicon Carbide Wafer, with price, sales quantity, revenue, and global market share of Semi-Insulating Silicon Carbide Wafer from 2020 to 2025.

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

Chapter 4, the Semi-Insulating Silicon Carbide Wafer breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

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 2020 to 2025. and Semi-Insulating Silicon Carbide Wafer market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Semi-Insulating Silicon Carbide Wafer.

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

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