

# Global SiC Seed Wafer Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global SiC Seed Wafer market size was valued at US\$ 47.23 million in 2025 and is forecast to a readjusted size of US\$ 180 million by 2032 with a CAGR of 21.0% during review period.

A SiC Seed Wafer is a high-quality single-crystal SiC wafer used as the seed in bulk SiC crystal growth—most commonly Physical Vapor Transport (PVT). During PVT, SiC source material sublimates at high temperature and the vapor species are transported to a cooler region where they deposit and crystallize on the seed, forming a monocrystalline SiC boule. The seed wafer therefore acts as the crystallographic “template” that governs the grown boule’s polytype, orientation, and surface polarity.

Upstream, seed wafers are typically prepared from previously grown high-quality SiC boules (often from the same supply chain used to make device substrates). The boule is sliced and processed through steps such as lapping/grinding and CMP (chemical–mechanical polishing) to achieve the required flatness, low roughness, and low subsurface damage. Seed wafers are also commonly specified with a controlled off-cut (miscut) to preserve polytype and enable step-flow growth behavior in subsequent epitaxy and/or controlled crystal growth.

Downstream, the seed wafer is mounted in the PVT crucible (typically at the top/lid, in the cooler zone) to initiate and stabilize boule growth; in diameter-expansion practice, wafers sliced from an enlarged boule can be characterized and re-selected as seeds for the next growth run, enabling stepwise scale-up. The resulting boules are then sliced into SiC substrates for end markets such as power electronics and RF electronics.

In 2025, global production of SiC Seed Wafer reached approximately 160 K Pcs, with

an average global market price of around US\$ 286/Pcs. Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 5% to 30%.

This report is a detailed and comprehensive analysis for global SiC Seed 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 SiC Seed Wafer market size and forecasts, in consumption value (\$ Million), sales quantity (Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global SiC Seed Wafer market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global SiC Seed Wafer market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global SiC Seed Wafer market shares of main players, shipments in revenue (\$ Million), sales quantity (Pcs), and ASP (US\$/Pcs), 2021-2026

### **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 SiC Seed Wafer
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global SiC Seed 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, Coherent, SiCrystal, TankeBlue,

SICC, SK Siltron, Ningbo Alpha Semiconductor, Resonac, Zhejiang Tony Electronic, STMicroelectronics, etc.

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

## **Market Segmentation**

SiC Seed Wafer market is split by Type and by Application. For the period 2021-2032, 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**

N-Type

Semi-Insulating Type

P-Type

### **Market segment by Crystal Structure**

4H-SiC

6H-SiC

Other

### **Market segment by Seed Orientation**

On-Axis Seed Wafer

Off-Axis Seed Wafer

### **Market segment by Application**

SiC Boule

SiC Power Device Substrates

GaN-on-SiC RF & Microwave Devices

Other

### Major players covered

Wolfspeed

Coherent

SiCrystal

TankeBlue

SICC

SK Siltron

Ningbo Alpha Semiconductor

Resonac

Zhejiang Tony Electronic

STMicroelectronics

onsemi

Hebei Synlight Semiconductor

Shanxi Semisic Crystal

Zhejiang CrystalYond Semiconductor

KY Semiconductor

IVSemitec

Sanan Semiconductor

Hypersics

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

Chapter 2, to profile the top manufacturers of SiC Seed Wafer, with price, sales quantity, revenue, and global market share of SiC Seed Wafer from 2021 to 2026.

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

Chapter 4, the SiC Seed Wafer breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and SiC Seed Wafer market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Seed Wafer.

Chapter 14 and 15, to describe SiC Seed Wafer sales channel, distributors, customers, research findings and conclusion.

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