

# Global SiC Seed Wafer Market Growth 2026-2032

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## Abstracts

The global SiC Seed Wafer market size is predicted to grow from US\$ 44.90 million in 2025 to US\$ 183 million in 2032; it is expected to grow at a CAGR of 22.3% from 2026 to 2032.

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%.

United States market for SiC Seed Wafer is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for SiC Seed Wafer is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for SiC Seed Wafer is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key SiC Seed Wafer players cover Wolfspeed, Coherent, SiCrystal, TankeBlue, SICC, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "SiC Seed Wafer Industry Forecast" looks at past sales and reviews total world SiC Seed Wafer sales in 2025, providing a comprehensive analysis by region and market sector of projected SiC Seed Wafer sales for 2026 through 2032. With SiC Seed Wafer sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world SiC Seed Wafer industry.

This Insight Report provides a comprehensive analysis of the global SiC Seed Wafer landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on SiC Seed Wafer portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global SiC Seed Wafer market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for SiC Seed Wafer and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global SiC Seed Wafer.

This report presents a comprehensive overview, market shares, and growth opportunities of SiC Seed Wafer market by product type, application, key manufacturers

and key regions and countries.

Segmentation by Type:

N-Type

Semi-Insulating Type

P-Type

Segmentation by Crystal Structure:

4H-SiC

6H-SiC

Other

Segmentation by Seed Orientation:

On-Axis Seed Wafer

Off-Axis Seed Wafer

Segmentation by Application:

SiC Boule

SiC Power Device Substrates

GaN-on-SiC RF & Microwave Devices

Other

This report also splits the market by region:

## Americas

United States

Canada

Mexico

Brazil

## APAC

China

Japan

Korea

Southeast Asia

India

Australia

## Europe

Germany

France

UK

Italy

Russia

## Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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

### Key Questions Addressed in this Report

What is the 10-year outlook for the global SiC Seed Wafer market?

What factors are driving SiC Seed Wafer market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do SiC Seed Wafer market opportunities vary by end market size?

How does SiC Seed Wafer break out by Type, by Application?

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