

Global Silicon Carbide Boule Market Growth 2026-2032

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Abstracts

The global Silicon Carbide Boule market size is predicted to grow from US\$ 662 million in 2025 to US\$ 2113 million in 2032; it is expected to grow at a CAGR of 18.3% from 2026 to 2032.

A silicon carbide boule is a cylindrical single crystal of silicon carbide grown on a seed crystal using physical vapor transport (PVT) sublimation or related methods, under high temperature and controlled atmosphere. Typical polytypes include 4H-SiC and 6H-SiC, with conductive or semi-insulating doping. After growth, the silicon carbide boule is oriented, ground to a standard diameter, and sliced into thin disks, which are then lapped and polished to produce silicon carbide substrates/wafers used for power and RF devices.

Upstream of the silicon carbide boule are high purity SiC source powders, often with controlled particle-size distributions to stabilize sublimation and crystal growth, combined with dopant sources. Downstream, the silicon carbide boule is shaped and sliced into wafers, which are polished into silicon carbide substrates that serve as the starting material for power and RF semiconductor devices.

In 2024, global sales of silicon carbide boule reached approximately 107 K pieces, with an average global market price of around US\$ 6,312/piece. Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 20% to 50%.

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

Global key Silicon Carbide Boule players cover Wolfspeed, Coherent, SiCrystal, SK Siltron, Resonac, 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 “Silicon Carbide Boule Industry Forecast” looks at past sales and reviews total world Silicon Carbide Boule sales in 2025, providing a comprehensive analysis by region and market sector of projected Silicon Carbide Boule sales for 2026 through 2032. With Silicon Carbide Boule sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Silicon Carbide Boule industry.

This Insight Report provides a comprehensive analysis of the global Silicon Carbide Boule 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 Silicon Carbide Boule portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Silicon Carbide Boule market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Silicon Carbide Boule 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 Silicon Carbide Boule.

This report presents a comprehensive overview, market shares, and growth opportunities of Silicon Carbide Boule market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

4H-SiC

6H-SiC

Other

Segmentation by Conductivity:

N-type

P-type

Semi-insulating

Segmentation by Diameter:

4-inch

6-inch

8-inch

Segmentation by Application:

Automotive Power Electronics

Renewable Energy

Industrial Motor Drives

Communication Electronics

Aerospace

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

SK Siltron

Resonac

STMicroelectronics

onsemi

Mitsubishi Electric

Atecom Technology

Shanxi Semisic Crystal

TankeBlue

SICC

Hebei Synlight Semiconductor

Ningbo Alpha Semiconductor

Hypersics

Sanan Optoelectronics

CETC Semiconductor Materials

Beijing Century Goldray Semiconductor

Key Questions Addressed in this Report

What is the 10-year outlook for the global Silicon Carbide Boule market?

What factors are driving Silicon Carbide Boule market growth, globally and by region?

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

How do Silicon Carbide Boule market opportunities vary by end market size?

How does Silicon Carbide Boule break out by Type, by Application?

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