

# Global Silicon Carbide Single Crystal Ingot 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 Silicon Carbide Single Crystal Ingot market size was valued at US\$ 951 million in 2025 and is forecast to a readjusted size of US\$ 3629 million by 2032 with a CAGR of 21.0% during review period.

Silicon carbide single crystal ingot is a bulk monocrystalline body of silicon carbide (typically 4H-SiC or 6H-SiC) grown in a cylindrical or slightly tapered “boule” form by Physical Vapor Transport (PVT), solution growth or related high-temperature techniques. It is the intermediate material between SiC source powder and sliced/polished wafers, and provides the crystal structure, polytype and defect levels that ultimately determine device performance. Compared with silicon, SiC single crystals offer a much wider bandgap, higher breakdown electric field and superior thermal conductivity, making them the preferred base material for next-generation power and RF electronics.

Upstream of the silicon carbide single crystal ingot are high-purity SiC source materials, high-purity silicon and carbon precursors, seeded crystals, graphite crucibles and insulation, as well as PVT or solution-growth crystal furnaces and associated high-temperature process technology. In PVT growth, SiC powder is sublimed and re-condensed on a seed crystal to form a large single crystal ingot, with temperature gradients, ambient pressure and gas composition precisely controlled to stabilize the desired 4H or 6H polytype and suppress defects such as micropipes and dislocations. Downstream, the single crystal ingots are primarily used in the production of 4-inch, 6-inch, and 8-inch wafers.

In 2025, global production of silicon carbide single crystal ingot reached approximately 156 K Pcs, with an average global market price of around US\$ 5,918/Pcs. Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 20% to 40%.

This report is a detailed and comprehensive analysis for global Silicon Carbide Single Crystal Ingot 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 Silicon Carbide Single Crystal Ingot market size and forecasts, in consumption value (\$ Million), sales quantity (Pcs), and average selling prices (US\$/Unit), 2021-2032

Global Silicon Carbide Single Crystal Ingot market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Pcs), and average selling prices (US\$/Unit), 2021-2032

Global Silicon Carbide Single Crystal Ingot market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Pcs), and average selling prices (US\$/Unit), 2021-2032

Global Silicon Carbide Single Crystal Ingot market shares of main players, shipments in revenue (\$ Million), sales quantity (Pcs), and ASP (US\$/Unit), 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 Silicon Carbide Single Crystal Ingot
- 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 Silicon Carbide Single Crystal Ingot 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**

Silicon Carbide Single Crystal Ingot 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 Polytype Classification**

4H-SiC

6H-SiC

Other

### **Market segment by Crystal Growth Method**

PVT

HTCVD

Other

## **Market segment by Application**

4 Inch Wafer

6 Inch Wafer

8 Inch Wafer

## **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

IVSemitec

Sanan Semiconductor

Zhejiang CrystalYond Semiconductor

Hypersics

GeChi Compound Semiconductor

Atecom Technology

KY Semiconductor

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 Silicon Carbide Single Crystal Ingot product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silicon Carbide Single Crystal Ingot, with price, sales quantity, revenue, and global market share of Silicon Carbide Single Crystal Ingot from 2021 to 2026.

Chapter 3, the Silicon Carbide Single Crystal Ingot competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Silicon Carbide Single Crystal Ingot 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 Silicon Carbide Single Crystal Ingot 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 Silicon Carbide Single Crystal Ingot.

Chapter 14 and 15, to describe Silicon Carbide Single Crystal Ingot sales channel, distributors, customers, research findings and conclusion.

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