

# Global 6-inch Silicon Carbide Epitaxial Wafer Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G14E3BD76693EN.html>

Date: April 2026

Pages: 126

Price: US\$ 4,480.00 (Single User License)

ID: G14E3BD76693EN

## Abstracts

The global 6-inch Silicon Carbide Epitaxial Wafer market size is expected to reach \$ 3184 million by 2032, rising at a market growth of 15.1% CAGR during the forecast period (2026-2032).

In 2025, global 6-inch SiC epitaxial wafer production capacity is 1,400,000 wafers, with actual production reaching approximately 1,050,000 wafers. The average global market price is around US\$ 1,100 per wafer. The market gross margin is mainly 30%-45%. A 6-inch Silicon Carbide (SiC) epitaxial wafer is produced by growing a high-quality epitaxial layer on a 6-inch SiC substrate using chemical vapor deposition (CVD). The epitaxial layer determines key electrical characteristics such as breakdown voltage, doping concentration, and defect density. These wafers are primarily used for manufacturing SiC power devices including MOSFETs, Schottky barrier diodes (SBDs), and high-voltage modules. Compared with silicon-based materials, SiC offers superior thermal conductivity, higher breakdown electric field strength, and lower switching loss, making it suitable for high-efficiency and high-power applications.

Upstream includes SiC substrate manufacturers, high-purity precursor gases, graphite susceptors, and CVD equipment suppliers. The midstream involves epitaxial growth companies responsible for layer uniformity control, defect density reduction, and doping precision. Downstream customers are SiC power device manufacturers supplying electric vehicles, photovoltaic inverters, industrial drives, rail transit, and energy storage systems. The industry is characterized by high technical barriers, stringent defect control requirements, and strong demand driven by new energy applications.

The 6-inch SiC epitaxial wafer market remains in a high-growth phase, primarily driven by electric vehicle (EV) powertrain electrification and renewable energy systems. While

8-inch SiC development is accelerating, 6-inch wafers still represent the mainstream commercial production platform due to mature equipment compatibility and established supply chains.

Capacity expansion continues globally, but yield improvement and defect density reduction remain critical constraints. Vertical integration strategies where substrate, epitaxy, and device manufacturing are integrated are increasingly adopted to stabilize supply and control costs. Overall, the segment is positioned as a high-growth, technology-intensive material market within the compound semiconductor industry.

This report studies the global 6-inch Silicon Carbide Epitaxial Wafer production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 6-inch Silicon Carbide Epitaxial Wafer and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of 6-inch Silicon Carbide Epitaxial Wafer that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global 6-inch Silicon Carbide Epitaxial Wafer total production and demand, 2021-2032, (K Wafers)

Global 6-inch Silicon Carbide Epitaxial Wafer total production value, 2021-2032, (USD Million)

Global 6-inch Silicon Carbide Epitaxial Wafer production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Wafers), (based on production site)

Global 6-inch Silicon Carbide Epitaxial Wafer consumption by region & country, CAGR, 2021-2032 & (K Wafers)

U.S. VS China: 6-inch Silicon Carbide Epitaxial Wafer domestic production, consumption, key domestic manufacturers and share

Global 6-inch Silicon Carbide Epitaxial Wafer production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Wafers)

Global 6-inch Silicon Carbide Epitaxial Wafer production by Epitaxial Thickness, production, value, CAGR, 2021-2032, (USD Million) & (K Wafers)

Global 6-inch Silicon Carbide Epitaxial Wafer production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Wafers)

This report profiles key players in the global 6-inch Silicon Carbide Epitaxial Wafer

market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Wolfspeed, EpiWorld International, Resonac, ROHM (SiCrystal), Tianyu Semiconductor, Coherent (II-VI), SK Siltron, STMicroelectronics, Best Compound Semiconductor, Xike Semiconductor, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World 6-inch Silicon Carbide Epitaxial Wafer market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Wafers) and average price (US\$/Wafer) by manufacturer, by Epitaxial Thickness, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global 6-inch Silicon Carbide Epitaxial Wafer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## Global 6-inch Silicon Carbide Epitaxial Wafer Market, Segmentation by Epitaxial Thickness:

N Type

P Type

## Global 6-inch Silicon Carbide Epitaxial Wafer Market, Segmentation by Application:

600-1200V SiC Devices

1200-3300V SiC Devices

Above 3300V SiC Devices

## Companies Profiled:

Wolfspeed

EpiWorld International

Resonac

ROHM (SiCrystal)

Tianyu Semiconductor

Coherent (II-VI)

SK Siltron

STMicroelectronics

Best Compound Semiconductor

Xike Semiconductor

cecsic

Haiqian Semiconductor

Puxing Electronics

HS-mmcs

TankeBlue

**Key Questions Answered:**

1. How big is the global 6-inch Silicon Carbide Epitaxial Wafer market?
2. What is the demand of the global 6-inch Silicon Carbide Epitaxial Wafer market?
3. What is the year over year growth of the global 6-inch Silicon Carbide Epitaxial Wafer market?
4. What is the production and production value of the global 6-inch Silicon Carbide Epitaxial Wafer market?
5. Who are the key producers in the global 6-inch Silicon Carbide Epitaxial Wafer market?
6. What are the growth factors driving the market demand?

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