

# Single-crystal SiC Substrates Global Market Insights 2026, Analysis and Forecast to 2031

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## Abstracts

### Market Overview and Introduction to Single-crystal SiC Substrates

The global semiconductor industry is currently undergoing a significant paradigm shift, moving beyond the physical limits of traditional silicon (Si) based materials toward Wide Bandgap (WBG) semiconductors. At the forefront of this revolution is Single-crystal Silicon Carbide (SiC). As the foundational material for the third generation of semiconductors, Single-crystal SiC substrates are critical components in the manufacturing of high-performance power devices and radio frequency (RF) devices. The material's intrinsic properties—including a bandgap three times wider than silicon, a breakdown electric field ten times higher, and thermal conductivity three times greater—enable devices that operate at higher voltages, frequencies, and temperatures while maintaining superior energy efficiency.

The market for Single-crystal SiC substrates is categorized primarily by the electrical properties of the material, which dictates the downstream application. The two primary classifications are Conductive Substrates and Semi-insulating Substrates. Conductive SiC substrates are characterized by low resistivity and are used to grow Silicon Carbide epitaxial layers for fabricating power devices such as MOSFETs (Metal-Oxide-Semiconductor Field-Effect Transistors) and Schottky diodes. These components are indispensable in high-voltage applications like electric vehicles (EVs) and photovoltaic inverters. Conversely, Semi-insulating SiC substrates possess high resistivity and are used primarily as the foundation for Gallium Nitride (GaN) epitaxial layers to produce RF devices for 5G telecommunications and radar systems.

Despite the superior performance, the adoption of SiC has historically been constrained by cost. Current industry data suggests that SiC power devices cost approximately

three times as much as their silicon counterparts. The substrate itself represents the most significant cost driver and the highest technological barrier in the entire value chain. However, as the industry scales and processing technologies mature, the market is witnessing a concerted effort to reduce costs, driving broader adoption across automotive and industrial sectors.

### **Market Size and Growth Trajectory (2026-2031)**

The Single-crystal SiC Substrates market is poised for explosive growth, driven by an insatiable demand for energy-efficient power electronics. By the end of 2026, the estimated market size for Single-crystal SiC Substrates is projected to range between 1.8 billion USD and 2.2 billion USD. This valuation reflects a critical inflection point where capacity expansions from major global players begin to meet the surging demand from the automotive sector.

Looking further ahead, the long-term growth prospects remain robust. From 2026 through 2031, the market is anticipated to expand at a Compound Annual Growth Rate (CAGR) of 26% to 30%. This aggressive growth trajectory is underpinned by the universal transition to 800V architectures in electric vehicles, the rollout of ultra-fast charging infrastructure, and the modernization of global energy grids. The market is evolving from a niche material sector into a commoditized, high-volume industrial powerhouse.

### **Value Chain and Production Process Analysis**

The Silicon Carbide value chain is characterized by a steep technological learning curve and high value concentration at the upstream level. The value chain comprises substrate preparation, epitaxy, device design and manufacturing, and module packaging. Among these, the substrate manufacturing link is the 'crown jewel,' accounting for a significant portion of the final device cost and serving as the primary bottleneck for industry capacity.

Producing Single-crystal SiC substrates is vastly more complex than producing silicon wafers. The process involves four critical steps, each presenting unique engineering challenges:

**Crystal Growth (Long Crystal Growth):** This is the most technically demanding phase. Unlike silicon, which is grown from a melt, SiC sublimates (turns from solid to vapor) at extremely high temperatures (above 2,300°C) using the

Physical Vapor Transport (PVT) method. The growth rate is agonizingly slow—often limited to millimeters per hour—and the process is prone to defects such as micropipes, stacking faults, and dislocations. Maintaining precise temperature control and pressure over long periods is essential to yield high-quality crystals.

**Slicing (Wafering):** Once the SiC boule (ingot) is grown, it must be sliced into wafers. SiC is the third hardest material on earth (after diamond and boron nitride), making mechanical slicing difficult. Traditional wire saws suffer from high kerf loss (material waste) and slow cutting speeds. The industry is increasingly exploring laser splitting technologies and diamond wire sawing to improve yield and reduce waste, which is critical given the high value of the crystal.

**Grinding:** After slicing, the wafers undergo grinding to achieve the necessary flatness and thickness consistency. This step removes the damage layer caused by slicing and prepares the surface for the final stage.

**Polishing:** The final step involves Chemical Mechanical Polishing (CMP) to create an atomic-level flat surface suitable for epitaxial growth. The hardness of SiC makes this process time-consuming and consumable-intensive.

This complex production cycle creates a high barrier to entry. Consequently, substrate manufacturers hold significant leverage in the supply chain, often entering into long-term supply agreements (LTSAs) with downstream device makers to guarantee capacity.

## **Regional Market Analysis**

The global landscape for SiC substrates is geographically diverse, with distinct trends emerging in major economic zones.

**Asia-Pacific (APAC):** Estimated Regional Growth (CAGR 2026-2031): 28% - 33%

The APAC region is the undisputed dominant force in the SiC market. China alone accounts for over 50% of the global demand for SiC substrates, driven by its massive

electric vehicle manufacturing ecosystem and renewable energy infrastructure build-out. The Chinese government has designated wide bandgap semiconductors as a strategic priority, fueling rapid capacity expansion among domestic players. Japan and South Korea are also critical hubs. Japan maintains leadership in high-quality power device manufacturing (driven by companies like ROHM), while South Korea is aggressively securing supply chains through acquisitions and internal development.

North America: Estimated Regional Growth (CAGR 2026-2031): 24% - 28%

As the birthplace of commercial SiC technology, North America remains a center for innovation and high-end manufacturing. The region is home to some of the largest integrated device manufacturers (IDMs) and material suppliers. The focus in this region is on transitioning to larger wafer diameters (200mm) and improving yield rates to support both domestic EV production and export markets.

Europe: Estimated Regional Growth (CAGR 2026-2031): 25% - 29%

Europe's market is heavily influenced by its robust automotive sector. Premium automotive OEMs in Germany and Italy are aggressive adopters of SiC technology for electric powertrains. While Europe has less raw substrate manufacturing capacity compared to APAC or North America, it is a massive consumer of SiC devices, driving strategic partnerships between European chipmakers and global substrate suppliers.

South America, Middle East, and Africa (MEA): Estimated Regional Growth (CAGR 2026-2031): 15% - 20%

These regions are currently smaller markets but show potential for growth, particularly in renewable energy applications (solar inverters) and developing EV infrastructure. Growth will track global technology adoption rates but lag behind major industrial hubs.

## **Application Trends**

Automotive Sector (The Primary Driver):

The automotive industry is the single largest consumer of Conductive SiC substrates.

As automakers transition from 400V to 800V battery architectures to enable faster charging and longer ranges, silicon-based IGBTs are reaching their theoretical limits. SiC allows for smaller, lighter, and more efficient traction inverters, On-Board Chargers (OBCs), and DC-DC converters. The reduced weight of the cooling system (due to SiC's thermal efficiency) directly translates to increased vehicle range. The massive volume of wafers required for EVs is the primary factor underpinning the forecasted market growth.

#### Communications and RF:

Semi-insulating SiC substrates form the bedrock of the 5G and upcoming 6G infrastructure. Gallium Nitride on Silicon Carbide (GaN-on-SiC) devices offer the high power density and efficiency required for base station power amplifiers. While the volume is lower compared to automotive, the value and technical requirements for semi-insulating substrates remain high.

#### Industrial and Energy:

Beyond cars and phones, SiC is transforming industrial motor drives, rail traction systems, and renewable energy. In solar inverters, SiC reduces energy loss during the conversion from DC to AC, improving the overall return on investment for solar farms.

### **Competitive Landscape and Key Players**

The global market is characterized by a mix of established veterans and aggressive newcomers. The competitive dynamic is intense, focused on capacity expansion and the migration to larger wafer sizes.

#### Wolfspeed Inc. (USA):

Formerly known as Cree Inc. (renamed in October 2021), Wolfspeed is a pioneer in SiC technology and arguably the most recognizable name in the sector. The company's journey highlights the capital-intensive and volatile nature of the industry. While holding a dominant market position in substrate IP and production capacity, the company faced significant financial headwinds during its aggressive expansion phase. Notably, on June 30, 2025, Wolfspeed filed for Chapter 11 bankruptcy protection to restructure its debt

obligations. However, demonstrating the resilience and critical nature of its technology, the company successfully completed its financial restructuring and emerged from Chapter 11 protection on September 29, 2025. This reorganization has allowed Wolfspeed to streamline operations and refocus on its core competency: mass-producing 200mm SiC wafers at its Mohawk Valley and materials facilities.

#### SK Siltron Co. Ltd. (South Korea):

A subsidiary of the SK Group, SK Siltron rapidly ascended the SiC ranks following its strategic acquisition of DuPont's SiC Wafer Division on March 2, 2020. This acquisition provided immediate access to high-quality crystal growth technology and patent portfolios. SK Siltron has since invested heavily to expand production capacity in both the US and Korea, positioning itself as a top-tier global supplier.

#### Beijing TankeBlue Semiconductor Co. Ltd. (China):

TankeBlue is a leading figure in the Chinese domestic market, representing the rapid technological catch-up of Chinese suppliers. The company achieved a significant milestone in 2022 by releasing its 8-inch (200mm) conductive silicon carbide substrate product. By 2023, TankeBlue had realized small-scale mass production of these 8-inch substrates. This achievement is critical as it challenges the historical dominance of Western companies in the large-diameter wafer segment.

#### SICC Co. Ltd. (China):

SICC is another major Chinese powerhouse, boasting some of the largest capacity figures for semi-insulating substrates globally and rapidly expanding its conductive substrate lines. The company benefits from strong local demand and government support, aiming to reduce China's reliance on imported materials.

#### Coherent Corp (USA):

Formerly II-VI Incorporated, Coherent is a diversified materials giant with a strong foothold in the SiC market. They have secured massive long-term supply agreements with major automotive chipmakers (such as Infineon and Mitsubishi Electric), leveraging

their ability to scale production and ensure quality consistency.

ROHM Co. Ltd. (Japan):

Through its subsidiary SiCrystal (based in Germany), ROHM is a vertically integrated player. SiCrystal is a major European supplier of substrates, providing ROHM with a secured supply chain for its power devices while also selling substrates to the open market.

**Technological Trends: The Shift to 8-Inch (200mm)**

The most defining technological trend in the current market is the migration from 6-inch (150mm) to 8-inch (200mm) wafers. Increasing the wafer diameter is the most effective lever for cost reduction. An 8-inch wafer provides approximately 1.78 times the usable area of a 6-inch wafer. When accounting for the reduced edge exclusion effect, the number of chips that can be produced per wafer nearly doubles.

This shift is crucial for the industry's economic viability. Market forecasts suggest that substrate prices are expected to decline at an average rate of 8% annually. This price erosion is necessary to narrow the cost gap between SiC and Silicon devices. The transition to 8-inch wafers allows manufacturers to absorb these price reductions while maintaining margins through improved throughput. However, scaling to 8-inch is fraught with difficulty; larger crystals are more prone to thermal gradients and stress, which can lead to cracking or high defect densities. Companies that can master high-yield 8-inch production (like Wolfspeed, TankeBlue, and Coherent) will define the market's future.

## **Opportunities and Challenges**

Opportunities:

**Global Decarbonization:** Government mandates for net-zero emissions are directly expanding the Total Addressable Market (TAM) for SiC in renewable energy and transportation.

**Charging Infrastructure:** The deployment of public DC fast chargers (150kW-350kW) relies heavily on SiC modules to handle high power flows efficiently within compact footprints.

**Cost Parity Trajectory:** As substrate prices fall, SiC will begin to displace silicon in mid-voltage applications where it was previously deemed too expensive, opening up consumer electronics and residential appliance markets.

#### Challenges:

**High Production Costs:** Despite improvements, the cost of SiC substrates remains the primary inhibitor. SiC devices are still roughly 3 times the cost of Si devices, restricting adoption in cost-sensitive segments.

**Defect Density:** Eliminating killer defects (like basal plane dislocations) is an ongoing battle. High defect rates reduce the yield of useable chips per wafer, keeping effective costs high.

**Geopolitical Friction:** As a strategic material, SiC is subject to export controls and trade tensions. The bifurcation of supply chains (China vs. West) creates complexities for global device manufacturers.

**Capital Intensity:** Building SiC crystal growth facilities requires immense capital expenditure with long return horizons, as evidenced by the financial strain seen in major players like Wolfspeed prior to restructuring.

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