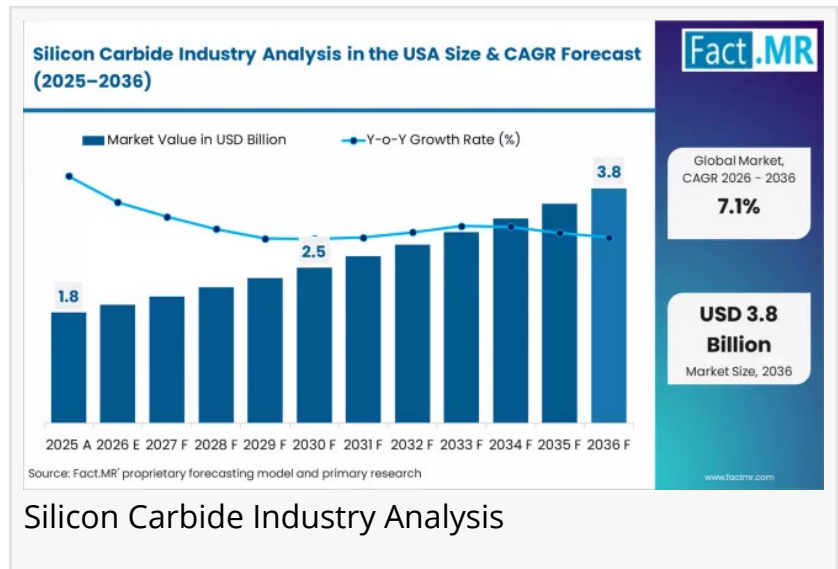


Global Silicon Carbide Market Insights with U.S. Midwest Dominance and Saint-Gobain Leadership Trends

USA Silicon Carbide Market Powering Industrial Modernization; Valued at USD 1.93 Billion in 2026

ROCKVILLE, MD, UNITED STATES, April 7, 2026 /EINPresswire.com/ -- The [silicon carbide \(SiC\) industry](#) in the United States is undergoing a structural transformation, evolving from a legacy industrial staple into a critical linchpin of the high-tech economy. According to latest analysis, the domestic market is valued at USD 1.80 billion in 2025 and is projected to reach USD 1.93 billion in 2026.



Silicon Carbide Industry Analysis

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Driven by a dual-engine demand from traditional heavy manufacturing and the rapid electrification of the automotive sector, the industry is forecast to expand at a 7.1% CAGR, reaching USD 3.83 billion by 2036.

Market Segmentation & Strategic Outlook

The USA market is currently defined by two distinct tiers: Industrial-Grade SiC (Abrasives and Refractories) and Electronics-Grade SiC (Semiconductors and Power Electronics).

By Product Grade & Use Type

Abrasives/Refractories (49.0% Market Share): This remains the dominant segment for 2026. SiC's extreme hardness and thermal resistance make it indispensable for precision grinding in aerospace and high-temperature furnace linings.

Black SiC (46.0% Market Share): Due to its cost-effectiveness, Black SiC continues to lead by

grade, primarily serving the metallurgical and foundry sectors as a deoxidizer and additive in steel production.

High-Purity Specialty/Green SiC: While smaller in volume, these segments are seeing the highest value growth, particularly as semiconductor fabrication plants (fabs) scale production of wide-bandgap devices.

Regional Growth Dynamics

The industrial "rust belt" is reinventing itself as a "silicon corridor," with regional growth outperforming national averages in several sectors:

Midwest (7.6% CAGR): The national leader in growth, spurred by the concentration of automotive OEMs transitioning to Electric Vehicle (EV) architectures and established steel production clusters.

Northeast (7.4% CAGR): Driven by significant investments in semiconductor fabrication facilities and precision industrial manufacturing.

South (7.2% CAGR): Benefiting from the "Sunbelt" expansion of new EV battery plants and semiconductor manufacturing hubs.

Key Demand Drivers: The Electrification Catalyst

The transition to Electric Vehicles (EVs) is the single most significant disruptor in the SiC supply chain. SiC power semiconductors offer superior efficiency, higher voltage handling, and better thermal management compared to traditional silicon.

Supply Chain Commitments: Procurement teams are now shifting from spot-market buying to multi-year supply agreements for SiC wafers and epitaxial substrates to de-risk production timelines.

Legislative Tailwinds: The CHIPS and Science Act and Department of Energy (DOE) programs are funneling billions into domestic SiC device fabrication, aiming to reduce dependence on foreign wide-bandgap materials.

Competitive Landscape

The market is characterized by a mix of diversified industrial giants and specialized materials processors. Key players holding significant influence include:

Saint-Gobain S.A. (Market Leader with 16% share)

Washington Mills

ESK-SiC GmbH

Navarro Materials, Inc.

Fujimi Incorporated

Elkem ASA

Strategic Stakeholder Recommendations

For Manufacturers & Decision Makers

Invest in Grade Purity: Transition production capacity toward high-purity and specialty grades to capture the high-margin semiconductor and aerospace demand.

Operational Efficiency: Implement AI-driven quality control and digital twin technology to optimize the Acheson process, reducing energy intensity and improving yield.

For Investors

Target Infrastructure: Look for opportunities in domestic SiC recycling and "closed-loop" supply chain startups that mitigate raw material price volatility.

Focus on the South & Midwest: Strategic capital allocation should favor regions with high concentrations of "Gigafactories" and semiconductor fabs.

Analyst Insight: "The USA SiC market is no longer just about 'grit and grind.' It has become a strategic asset for national security and energy independence. Companies that can bridge the gap between industrial-scale production and semiconductor-grade purity will dominate the next decade of growth."

USA Silicon Carbide Industry: 2026–2036 Forecast Summary

Metric

2026 Projection

2036 Forecast

Market Value

USD 1.93 Billion

USD 3.83 Billion

CAGR (2026-2036)

7.1%

7.1%

Absolute Value Add

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USD 1.90 Billion

Leading Segment

Abrasives (49%)

Power Electronics (Rising)

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