

Global 8-inch Silicon Carbide Epitaxial Wafer Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 8-inch Silicon Carbide Epitaxial Wafer market size is expected to reach \$ 1583 million by 2032, rising at a market growth of 20.3% CAGR during the forecast period (2026-2032).

In 2025, global 8-inch SiC epitaxial wafer production capacity is 350,000 wafers, with actual production reaching approximately 260,000 wafers. The average global market price is around US\$ 1,600 per wafer. The market gross margin is mainly 35%-50%. An 8-inch Silicon Carbide (SiC) epitaxial wafer is manufactured by growing a high-quality epitaxial layer on an 8-inch SiC substrate through chemical vapor deposition (CVD). Compared with 6-inch wafers, the 8-inch format enables significantly higher chip output per wafer, improving cost efficiency at scale. The epitaxial layer determines device characteristics such as breakdown voltage, on-resistance, and defect density. 8-inch SiC epitaxial wafers are primarily used in advanced power semiconductor manufacturing for electric vehicles, high-voltage industrial inverters, energy storage systems, and grid infrastructure.

Upstream includes 8-inch SiC substrate manufacturers, high-purity precursor gas suppliers, graphite components, and advanced CVD equipment vendors. The technical barrier is significantly higher than the 6-inch segment due to challenges in crystal growth uniformity, defect density control, and wafer warpage management. Midstream epitaxy companies focus on uniform thickness control, doping precision, and yield improvement. Downstream customers are leading SiC device manufacturers transitioning production lines toward 8-inch platforms to reduce cost per ampere and improve scalability.

The 8-inch SiC epitaxial wafer market is in the early expansion phase but represents the

future mainstream direction of the SiC power semiconductor industry. Although current capacity remains limited, strong investment momentum is accelerating the transition from 6-inch to 8-inch platforms. Cost reduction per device is the primary driver, as larger wafer size significantly improves chip yield and production efficiency once defect density is controlled. However, technical complexity and capital expenditure are substantially higher, leading to a temporary supply-demand imbalance and premium pricing. Over the next five years, the segment is expected to maintain rapid growth, gradually replacing 6-inch as the dominant production platform in high-volume applications such as electric vehicles and renewable energy systems.

This report studies the global 8-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 8-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 8-inch Silicon Carbide Epitaxial Wafer that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 8-inch Silicon Carbide Epitaxial Wafer total production and demand, 2021-2032, (K Wafers)

Global 8-inch Silicon Carbide Epitaxial Wafer total production value, 2021-2032, (USD Million)

Global 8-inch Silicon Carbide Epitaxial Wafer production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Wafers), (based on production site)

Global 8-inch Silicon Carbide Epitaxial Wafer consumption by region & country, CAGR, 2021-2032 & (K Wafers)

U.S. VS China: 8-inch Silicon Carbide Epitaxial Wafer domestic production, consumption, key domestic manufacturers and share

Global 8-inch Silicon Carbide Epitaxial Wafer production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Wafers)

Global 8-inch Silicon Carbide Epitaxial Wafer production by Epitaxial Thickness, production, value, CAGR, 2021-2032, (USD Million) & (K Wafers)

Global 8-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 8-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, Tianyu Semiconductor, Coherent (II-VI), SK Siltron, Best Compound Semiconductor, Xike Semiconductor, CESC, Haiqian 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 8-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 8-inch Silicon Carbide Epitaxial Wafer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 8-inch Silicon Carbide Epitaxial Wafer Market, Segmentation by Epitaxial Thickness:

N Type

P Type

Global 8-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

Tianyu Semiconductor

Coherent (II-VI)

SK Siltron

Best Compound Semiconductor

Xike Semiconductor

CESC

Haiqian Semiconductor

Puxing Electronics

? NASIC

TankeBlue

Key Questions Answered:

1. How big is the global 8-inch Silicon Carbide Epitaxial Wafer market?
2. What is the demand of the global 8-inch Silicon Carbide Epitaxial Wafer market?
3. What is the year over year growth of the global 8-inch Silicon Carbide Epitaxial Wafer market?
4. What is the production and production value of the global 8-inch Silicon Carbide Epitaxial Wafer market?
5. Who are the key producers in the global 8-inch Silicon Carbide Epitaxial Wafer market?
6. What are the growth factors driving the market demand?

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