

# Global 4H-SiC Epitaxy Wafer Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global 4H-SiC Epitaxy Wafer market size is expected to reach \$ 8793 million by 2032, rising at a market growth of 18.1% CAGR during the forecast period (2026-2032).

In 2025, global sales of 4H-SiC epitaxy wafers reached approximately 1.965 million units, with an average global selling price of around USD 1,355 per wafer. The gross margin of major industry players was approximately 25%–40%. A 4H-SiC epitaxy wafer is a semiconductor wafer material formed by growing a high-quality single-crystal silicon carbide thin film on the surface of a 4H-SiC substrate through epitaxial growth processes such as chemical vapor deposition. Compared with a bare 4H-SiC substrate wafer, an epitaxy wafer not only provides mechanical support and a lattice foundation, but also directly determines the breakdown voltage, on-resistance, leakage current, and reliability of downstream power devices through the thickness, doping concentration, and defect control of the epitaxial layer.

This report studies the global 4H-SiC Epitaxy Wafer production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 4H-SiC Epitaxy 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 4H-SiC Epitaxy Wafer that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 4H-SiC Epitaxy Wafer total production and demand, 2021-2032, (Pcs)

Global 4H-SiC Epitaxy Wafer total production value, 2021-2032, (USD Million)

Global 4H-SiC Epitaxy Wafer production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Pcs), (based on production site)

Global 4H-SiC Epitaxy Wafer consumption by region & country, CAGR, 2021-2032 & (Pcs)

U.S. VS China: 4H-SiC Epitaxy Wafer domestic production, consumption, key domestic manufacturers and share

Global 4H-SiC Epitaxy Wafer production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Pcs)

Global 4H-SiC Epitaxy Wafer production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Pcs)

Global 4H-SiC Epitaxy Wafer production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Pcs)

This report profiles key players in the global 4H-SiC Epitaxy 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 UniversityWafer, Wolfspeed, Coherent, SK Siltron, TYSiC, Beijing TanKeBlue Semiconductor, MITK SEMI, Power-Epi, Xiamen Powerway Advanced Material, Epiworld International, 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 4H-SiC Epitaxy Wafer market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Pcs) and average price (US\$/Pc) by manufacturer, by Type, 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 4H-SiC Epitaxy Wafer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global 4H-SiC Epitaxy Wafer Market, Segmentation by Type:

6 Inches

8 Inches

12 Inches

Other

#### Global 4H-SiC Epitaxy Wafer Market, Segmentation by Performance:

Conductive Type

Semi-insulating Type

#### Global 4H-SiC Epitaxy Wafer Market, Segmentation by Application:

Consumer Electronics

Aerospace

Automobile

Other

#### Companies Profiled:

UniversityWafer

Wolfspeed

Coherent

SK Siltron

TYSiC

Beijing TanKeBlue Semiconductor

MITK SEMI

Power-Epi

Xiamen Powerway Advanced Material

Epiworld International

#### Key Questions Answered:

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

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