

Global SiC EPI Wafer Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global SiC EPI Wafer market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

The main epitaxial technology for SiC epitaxy growth is chemical vapor deposition (CVD), which realizes a certain thickness and doped silicon carbide epitaxial material through the growth of SiC epitaxy reactor step flow. With the improvement of silicon carbide power device manufacturing requirements and withstand voltage levels, SiC epi wafer continues to develop in the direction of low defects and thick epitaxy.

According to our Semiconductor Research Center, in 2022, the global SiC wafer was valued at US\$ 750 million, will grow rapidly in next six years, driven by the strong demand from electric vehicle (EV). Currently the 6 inch SiC substrates are dominating this market, and in next six years, more players will put into production the 8 inch SiC wafers. Currently the key players of SiC are mainly located headquartered United States, Europe, Japan and China, especially in China, more companies are entering the SiC market. It is predicted that, Chinese companies will play key roles in the SiC market in next ten years.

This report is a detailed and comprehensive analysis for global SiC EPI Wafer market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global SiC EPI Wafer market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global SiC EPI Wafer market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global SiC EPI Wafer market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global SiC EPI Wafer market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for SiC EPI Wafer

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global SiC EPI Wafer market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Cree (Wolfspeed), II-VI Advanced Materials, Showa Denko K.K., Epiworld international, SK siltron css, Siltronic AG, SweGaN AB, GlobalWafer Japan CO.Ltd., DongGuan TIAN YU Semiconductor Technology Co., Ltd., STMicroelectronics, etc.

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

Market Segmentation

SiC EPI Wafer market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help

you expand your business by targeting qualified niche markets.

Market segment by Type

N-Type

P-Type

Others

Market segment by Application

Radar

5G

Electric Vehicle

Solid State Lighting

Others

Major players covered

Cree (Wolfspeed)

II-VI Advanced Materials

Showa Denko K.K.

Epiworld international

SK siltron css

Siltronic AG

SweGaN AB

GlobalWafer Japan CO.Ltd.

DongGuan TIAN YU Semiconductor Technology Co., Ltd.

STMicroelectronics

Rohm Semiconductor

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe SiC EPI Wafer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of SiC EPI Wafer, with price, sales quantity, revenue, and global market share of SiC EPI Wafer from 2020 to 2025.

Chapter 3, the SiC EPI Wafer competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the SiC EPI Wafer breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and SiC EPI Wafer market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of SiC EPI Wafer.

Chapter 14 and 15, to describe SiC EPI Wafer sales channel, distributors, customers, research findings and conclusion.

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