

Global SiC Wafer Fabrication Market Growth 2026-2032

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Abstracts

The global SiC Wafer Fabrication market size is predicted to grow from US\$ 1720 million in 2025 to US\$ 7225 million in 2032; it is expected to grow at a CAGR of 23.2% from 2026 to 2032.

Silicon carbide (SiC) is a promising material for high power and high efficiency power devices which promote an advanced, energy-saving society. Currently the SiC devices are widely used in electric vehicle (EV) applications, solar inverters, energy storage, industrial motor drives, and power supplies.

This report studies the silicon carbide (SiC) wafer fabrication. The silicon carbide (SiC) wafer fabrication industry chain mainly includes three major processes: chip design, chip manufacturing, and packaging and testing. According to the different business models involved, the chip manufacturing is divided into two types: IDM and foundry. Currently IDMs are dominating the SiC market. Currently the key foundry of X-Fab, Episil Technology Inc., Sanan IC, HLMC, and GTA Semiconductor Co., Ltd., etc.

United States market for SiC Wafer Fabrication is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for SiC Wafer Fabrication is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for SiC Wafer Fabrication is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key SiC Wafer Fabrication players cover STMicroelectronics, Infineon,

Wolfspeed, Rohm, onsemi, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the “SiC Wafer Fabrication Industry Forecast” looks at past sales and reviews total world SiC Wafer Fabrication sales in 2025, providing a comprehensive analysis by region and market sector of projected SiC Wafer Fabrication sales for 2026 through 2032. With SiC Wafer Fabrication sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world SiC Wafer Fabrication industry.

This Insight Report provides a comprehensive analysis of the global SiC Wafer Fabrication landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on SiC Wafer Fabrication portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global SiC Wafer Fabrication market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for SiC Wafer Fabrication and breaks down the forecast by Technology, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global SiC Wafer Fabrication.

This report presents a comprehensive overview, market shares, and growth opportunities of SiC Wafer Fabrication market by product type, application, key manufacturers and key regions and countries.

Segmentation by Technology:

IDM

Foundry

Segmentation by Application:

Automotive & EV/HEV

EV Charging

UPS, Data Center & Server

PV, Energy Storage, Wind Power

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

STMicroelectronics

Infineon

Wolfspeed

Rohm

onsemi

BYD Semiconductor

Microchip (Microsemi)

Mitsubishi Electric (Vincotech)

Semikron Danfoss

Fuji Electric

Toshiba

San'an Optoelectronics

Littelfuse (IXYS)

CETC 55

Diodes Incorporated

Alpha & Omega Semiconductor

Bosch

GE Aerospace

KEC Corporation

PANJIT Group

Nexperia

Vishay Intertechnology

Zhuzhou CRRC Times Electric

China Resources Microelectronics Limited

Yangzhou Yangjie Electronic Technology

Changzhou Galaxy Century Microelectronics

Hangzhou Silan Microelectronics

SK powertech

InventChip Technology

Hebei Sinopack Electronic Technology

X-Fab

Episil Technology Inc.

Sanan IC

HLMC

GTA Semiconductor Co., Ltd.

Beijing Yandong Microelectronics

United Nova Technology

Global Power Technology

Wuhu Tus-Semiconductor

AscenPower

Clas-SiC Wafer Fab

SiCamore Semi

DB HiTek

Nanjing Quenergy Semiconductor

Key Questions Addressed in this Report

What is the 10-year outlook for the global SiC Wafer Fabrication market?

What factors are driving SiC Wafer Fabrication market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do SiC Wafer Fabrication market opportunities vary by end market size?

How does SiC Wafer Fabrication break out by Technology, by Application?

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