

Global 6 Inch Silicon Carbide Substrate 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 6 Inch Silicon Carbide Substrate market size was valued at US\$ 382 million in 2024 and is forecast to a readjusted size of USD 502 million by 2031 with a CAGR of 4.0% during review period.

Silicon carbide substrates (wafers) are single-crystal wafers formed by cutting, grinding, polishing, cleaning, and other processes of silicon carbide crystals. As a semiconductor substrate material, silicon carbide wafers can be made into silicon carbide-based power devices and microwave radiofrequency devices through epitaxial growth and device manufacturing. This report focus on the 6 Inch Silicon Carbide Substrate ?market.

This report is a detailed and comprehensive analysis for global 6 Inch Silicon Carbide Substrate 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 6 Inch Silicon Carbide Substrate market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global 6 Inch Silicon Carbide Substrate 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 6 Inch Silicon Carbide Substrate 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 6 Inch Silicon Carbide Substrate 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 6 Inch Silicon Carbide Substrate
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global 6 Inch Silicon Carbide Substrate 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, ROHM, Norstel, SICC Materials, Showa Denko, TankeBlue Semiconductor, SK Siltron, Synlight, CENGOL, etc.

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

Market Segmentation

6 Inch Silicon Carbide Substrate 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

Conductivity

Semi Insulated

Market segment by Application

Power Device

RF Devices

Other

Major players covered

Cree (Wolfspeed)

II-VI Advanced Materials

ROHM

Norstel

SICC Materials

Showa Denko

TankeBlue Semiconductor

SK Siltron

Synlight

CENGOL

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 6 Inch Silicon Carbide Substrate product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 6 Inch Silicon Carbide Substrate, with price, sales quantity, revenue, and global market share of 6 Inch Silicon Carbide Substrate from 2020 to 2025.

Chapter 3, the 6 Inch Silicon Carbide Substrate competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 6 Inch Silicon Carbide Substrate 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 6 Inch Silicon Carbide Substrate 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 6 Inch Silicon Carbide Substrate.

Chapter 14 and 15, to describe 6 Inch Silicon Carbide Substrate sales channel, distributors, customers, research findings and conclusion.

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