

Global SiC Single Crystal Substrates 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 Single Crystal Substrates market size was valued at US\$ 921 million in 2024 and is forecast to a readjusted size of USD 2426 million by 2031 with a CAGR of 14.2% during review period.

SiC single crystal wafers have excellent heat resistance and voltage resistance compared to silicon wafers that are widely used for semiconductors. SiC single crystal wafers can remarkably reduce energy loss during electric power control, significantly contributing to the reduction of energy use and environmental stress. They are highly expected as substrate materials for the next-generation.

Global key players of SiC Single Crystal Substrates include Wolfspeed, Coherent, SiCC, TankeBlue Semiconductor, ROHM Group (SiCrystal), etc. The top five players hold a share about 85%. North America is the largest market, and has a share about 42%, followed by Asia-Pacific and Europe with share 35% and 22%, separately. In terms of product type, 4 Inch is the largest segment, occupied for a share of 51%. In terms of application, Power Device has a share about 70 percent.

This report is a detailed and comprehensive analysis for global SiC Single Crystal Substrates 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 Single Crystal Substrates market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global SIC Single Crystal Substrates market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global SIC Single Crystal Substrates market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global SIC Single Crystal Substrates market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pcs), 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 Single Crystal Substrates

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 Single Crystal Substrates 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 Wolfspeed, Coherent, ROHM Group (SiCrystal), TankeBlue Semiconductor, SICC, Resonac, SK Siltron, STMicroelectronics, Hebei Synlight Crystal, CETC, etc.

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

Market Segmentation

SIC Single Crystal Substrates 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

4 Inch

6 Inch

8 Inch

Market segment by Application

Power Device

Electronics & Optoelectronics

Wireless Infrastructure

Others

Major players covered

Wolfspeed

Coherent

ROHM Group (SiCrystal)

TankeBlue Semiconductor

SICC

Resonac

SK Siltron

STMicroelectronics

Hebei Synlight Crystal

CETC

San'an Optoelectronics

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 Single Crystal Substrates product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of SIC Single Crystal Substrates, with price, sales quantity, revenue, and global market share of SIC Single Crystal Substrates from 2020 to 2025.

Chapter 3, the SIC Single Crystal Substrates competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the SIC Single Crystal Substrates 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 Single Crystal Substrates 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 Single Crystal Substrates.

Chapter 14 and 15, to describe SIC Single Crystal Substrates sales channel, distributors, customers, research findings and conclusion.

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