

Global n-Type Silicon Carbide 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 n-Type Silicon Carbide Substrates market size was valued at US\$ 709 million in 2024 and is forecast to a readjusted size of USD 1687 million by 2031 with a CAGR of 13.2% during review period.

Silicon carbide is an inorganic substance with the chemical formula SiC . It is made of raw materials such as quartz sand, petroleum coke (or coal coke), and sawdust (salt is needed to produce green silicon carbide) through high-temperature smelting in a resistance furnace. Silicon carbide is a semiconductor that exists in nature in the form of the extremely rare mineral moissanite. Since 1893, it has been mass-produced as powder and crystals for use as abrasives, etc. Among non-oxide high-tech refractory raw materials such as C, N, and B, silicon carbide is the most widely used and economical one, which can be called diamond sand or refractory sand.

Substance refers to the cutting, grinding, and polishing of crystals along a specific crystal direction to obtain a clean single substance with specific crystal planes and appropriate electrical, optical, and mechanical properties for growing epitaxial layers. Silicon carbide substance is the core material of the newly developed wide bandgap semiconductor. The devices made with it have the characteristics of high temperature resistance, high voltage resistance, high frequency, high power, and radiation resistance. It has the advantages of fast switching speed and high efficiency, which can greatly reduce product power consumption, improve energy conversion efficiency, and reduce product volume. According to different electrical properties, silicon carbide substance can be divided into two categories: semi-insulating silicon carbide substance and conductive silicon carbide substance. These two types of substance are clearly

used to manufacture discrete devices such as power devices and radio frequency devices after epitaxial growth.

N-type wafers have a higher free electron concentration and a lower hole concentration. Its resistivity is also inversely proportional to the doping concentration. Since the mobility of electrons is higher than that of holes, the conductivity of N-type semiconductors is usually better than that of P-type semiconductors. In particular, N-type semiconductors are more suitable for applications that require high mobility and low resistance.

The global N-type silicon carbide substrate market presents a diversified competitive situation. Major manufacturers include well-known companies such as SWolfspeed, Coherent, and Rohm, which have occupied a certain share in the market with their respective technological advantages, product characteristics, and market layout. However, with the continuous development of the market and the entry of new companies, market competition will become more intense. At present, Asia is the world's largest consumer market, followed by Europe and the United States.

With the rapid development of electric vehicles, photovoltaics, rail transportation and other fields, the market demand for N-type silicon carbide substrates continues to grow. The global and Chinese N-type conductive silicon carbide substrate market sales are expected to maintain a high growth rate in the next few years.

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

Global n-Type Silicon Carbide 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 n-Type Silicon Carbide 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 n-Type Silicon Carbide 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 n-Type Silicon Carbide 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 n-Type Silicon Carbide 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, SK Siltron, ROHM Group (SiCrystal), Coherent, Resonac, STMicroelectronics, TankeBlue, SICC, Hebei Synlight Crystal, CETC, etc.

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

Market Segmentation

n-Type Silicon Carbide 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

4H-SiC

6H-SiC

8H-SiC

Market segment by Application

Power Device

Electronics & Optoelectronics

Wireless Infrastructure

Others

Major players covered

Wolfspeed

SK Siltron

ROHM Group (SiCrystal)

Coherent

Resonac

STMicroelectronics

TankeBlue

SICC

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 n-Type Silicon Carbide Substrates product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of n-Type Silicon Carbide Substrates, with price, sales quantity, revenue, and global market share of n-Type Silicon Carbide Substrates from 2020 to 2025.

Chapter 3, the n-Type Silicon Carbide Substrates competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the n-Type Silicon Carbide 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 n-Type Silicon Carbide 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 n-Type Silicon Carbide Substrates.

Chapter 14 and 15, to describe n-Type Silicon Carbide Substrates sales channel, distributors, customers, research findings and conclusion.

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