

Global Silicon Wafer Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

As the base material of integrated circuits, silicon wafers have the characteristics of controllable resistivity and oxygen-carbon content. The single crystal ingot undergoes slicing, lapping, polishing, cleaning and other processes to obtain a silicon wafer with a specific thickness & geometric parameters and a clean surface. Silicon wafers are the substrate material for semiconductors and are used in all kinds of devices, from smartphones, home appliances, automobiles and other devices that we see in our daily lives, to cutting-edge fields such as AI and IoT.

According to our (Global Info Research) latest study, the global Silicon Wafer market size was valued at US\$ 16240 million in 2023 and is forecast to a readjusted size of USD 22950 million by 2030 with a CAGR of 5.6% during review period.

There are five core manufacturers of silicon wafers, including Shin-Etsu Chemical, SUMCO, GlobalWafers, Siltronic and SK Siltron, which account for about 81% of the market share. Japan is the largest wafer market with about 43% of the market, followed by China with 20%. In terms of product type, 12 Inch Wafers has the largest share, with about 75% of the market share. From an application perspective, Memory accounts for about half of the market share.

This report is a detailed and comprehensive analysis for global Silicon 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 2024, are provided.

Key Features:

Global Silicon Wafer market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2019-2030

Global Silicon Wafer market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2019-2030

Global Silicon Wafer market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2019-2030

Global Silicon Wafer market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pcs), 2019-2024

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 Silicon 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 Silicon 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 Shin-Etsu Chemical, SUMCO, GlobalWafers, Siltronic AG, SK Siltron, FST Corporation, Wafer Works Corporation, National Silicon Industry Group (NSIG), Zhonghuan Advanced Semiconductor Materials, Zhejiang Jinruihong Technologies, etc.

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

Market Segmentation

Silicon Wafer market is split by Type and by Application. For the period 2019-2030, 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

300mm Wafers

200mm Wafers

Small Diameter Wafers (100, 150mm)

Market segment by Application

Memory

Logic/MPU

Analog

Discrete Device & Sensor

Others

Major players covered

Shin-Etsu Chemical

SUMCO

GlobalWafers

Siltronic AG

SK Siltron

FST Corporation

Wafer Works Corporation

National Silicon Industry Group (NSIG)

Zhonghuan Advanced Semiconductor Materials

Zhejiang Jinruihong Technologies

Hangzhou Semiconductor Wafer (CCMC)

GRINM Semiconductor Materials

MCL Electronic Materials

Nanjing Guosheng Electronics

Hebei Puxing Electronic Technology

Shanghai Advanced Silicon Technology (AST)

Zhejiang MTCN Technology

Beijing ESWIN Technology Group

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 Silicon Wafer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silicon Wafer, with price, sales quantity, revenue, and global market share of Silicon Wafer from 2019 to 2024.

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

Chapter 4, the Silicon Wafer breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2019 to 2030.

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 2019 to 2030.

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 2019 to 2024. and Silicon Wafer market forecast, by regions, by Type, and by Application, with sales and revenue, from 2025 to 2030.

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 Silicon Wafer.

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

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