

Global Single Crystal Silicon Wafers (300mm) Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Single Crystal Silicon Wafers (300mm) market size was valued at US\$ 2252 million in 2023 and is forecast to a readjusted size of USD 3666 million by 2030 with a CAGR of 8.6% during review period.

Semiconductor silicon wafers are key component of integrated circuits such as those used to power computers, cell phones, and a wide variety of other devices. A silicon wafer consists of a thin slice of silicon which can be treated in various ways, depending on the type of electronics that is being used. Silicon has a very high quality semiconductor, making it ideal for the production of such circuits.

300mm/12inch wafers are the largest segment, mainly covers the 300mm Polished Wafers and 300mm Epitaxial Wafers, mainly used in Memory, Logic, Analog.

Currently the 12inch/300mm Semiconductor wafers are mainly produced in Japan, USA, South Korea, Germany, China Taiwan, Singapore, and China mainland. Japan is the largest producer, hold a share 35%, followed by USA, South Korea, Europe, etc. In next few years, China will be the fast-growing producer of 12 inch wafers.

In the global market, 12-inch semiconductor silicon wafers are mainly dominated by five major manufacturers, including Shin-Etsu Chemical, SUMCO, GlobalWafers, Siltronic AG and SK Siltron. In 2023, the world's top 5 manufacturers account for more than 85% of the market share. Chinese local manufacturers are currently mainly National Silicon Industry Group (NSIG), Hangzhou Semiconductor Wafer (CCMC), Beijing ESWIN Technology Group, Shanghai Advanced Silicon Technology (AST), Zhonghuan Advanced Semiconductor Materials, Zhejiang Jinruihong Technologies and GRINM Semiconductor Materials, etc. The eight major manufacturers account for about 4.2% of

the global market share. At present, the 12-inch semiconductor silicon wafers in the Chinese market still rely on imports, with a huge gap, opportunities and risks coexisting.

In terms of product types, 300mm polished wafers currently account for the highest proportion, with a share of 67% in 2023, followed by 300mm epitaxial wafers, 300mm SOI wafers and 300mm annealed wafers. Among them, 300mm SOI wafers are mainly dominated by France's Soitec.

From the perspective of product market application, Memory is the largest market, accounting for 52% of the market share in 2023, followed by logic chips, accounting for 46% of the market share. It is expected that in the next few years, driven by technologies such as AI, data centers, 5G, and IoT, the logic chip market will maintain faster growth. In recent years, the proportion of advanced processes in wafer manufacturing has been increasing. Judging from TSMC's revenue in recent years, in 2023, processes below 20 nanometers have accounted for 68% of the market share. It is expected that the proportion of advanced processes will further increase in the next few years.

For 12-inch semiconductor silicon wafers, downstream customers are mainly divided into two categories, Foundry and IDM. Among them, wafer foundry companies include TSMC, SMIC, GlobalFoundries, UMC, etc.; IDM companies mainly include Samsung, Intel, SK Hynix, Micron Technology, Texas Instruments, STMicroelectronics, etc.

This report is a detailed and comprehensive analysis for global Single Crystal Silicon Wafers (300mm) 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 Single Crystal Silicon Wafers (300mm) market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (USD/Pcs), 2019-2030

Global Single Crystal Silicon Wafers (300mm) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (USD/Pcs), 2019-2030

Global Single Crystal Silicon Wafers (300mm) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average

selling prices (USD/Pcs), 2019-2030

Global Single Crystal Silicon Wafers (300mm) market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (USD/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 Single Crystal Silicon Wafers (300mm)

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 Single Crystal Silicon Wafers (300mm) 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

Single Crystal Silicon Wafers (300mm) 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 Polished Silicon Wafer
- 300mm Epitaxial Silicon Wafer
- 300mm Annealed Silicon Wafer
- 300mm SOI Silicon Wafer

Market segment by Application

- Memory
- Logic/MPU
- 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
- Xi'an ESWIN Material

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 Single Crystal Silicon Wafers (300mm) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Single Crystal Silicon Wafers (300mm), with price, sales quantity, revenue, and global market share of Single Crystal Silicon Wafers (300mm) from 2019 to 2024.

Chapter 3, the Single Crystal Silicon Wafers (300mm) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Single Crystal Silicon Wafers (300mm) 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 Single Crystal Silicon Wafers (300mm) 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 Single Crystal Silicon Wafers (300mm).

Chapter 14 and 15, to describe Single Crystal Silicon Wafers (300mm) sales channel, distributors, customers, research findings and conclusion.

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