

Global 8-inch Wafer 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 8-inch Wafer market size was valued at US\$ 3522 million in 2023 and is forecast to a readjusted size of USD 5137 million by 2030 with a CAGR of 7.2% 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.

This report studies the 200mm/8inch semiconductor silicon wafers, including the 200mm polished wafer, 200mm epitaxial wafer, 200mm lapped/etched wafer, etc. Lowly-doped and highly-doped wafer, etc. Currently the 200mm wafers are mainly used in Logic, Analog, Discrete, Micro-processors, Image Sensors, Power- and Optoelectronics, IGBTs.

Currently the key manufacturers of 200mm/8inch silicon wafers include Shin-Etsu Chemical, SUMCO, GlobalWafers, SK Siltron, Siltronic AG, FST Corporation, National Silicon Industry Group (NSIG), Zhonghuan Advanced Semiconductor Materials, Wafer Works Corporation, Zhejiang Jinruihong Technologies, and Hangzhou Semiconductor Wafer (CCMC), the global Top 10 players hold a share about 88%.

The global market for semiconductor was estimated at US\$ 526.8 billion in the year 2023, is projected to US\$ 780.7 billion by 2030. IC Manufacturing is the process used to manufacture semiconductor devices, typically integrated circuits (ICs) such as computer processors, microcontrollers, and memory chips (such as NAND flash and DRAM).

According to our research, the global semiconductor manufacturing (wafer fabrication) market is projected to grow from US\$ 251.7 billion in 2023 to US\$ 506.5 billion by 2030, at a Compound Annual Growth Rate (CAGR) of 40.49% during the forecast period. This

will drive rapid growth of global 200mm Silicon Wafers.

This report is a detailed and comprehensive analysis for global 8-inch 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 8-inch Wafer market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2019-2030

Global 8-inch 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 8-inch 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 8-inch 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 8-inch 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 8-inch 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, Hangzhou Lion Microelectronics, etc.

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

Market Segmentation

8-inch 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

- 8-inch Polished Wafer
- 8-inch Epitaxial Wafer
- 8-inch Annealed Wafer
- 8-inch SOI Wafer

Market segment by Application

- Power/Discrete Devices
- Analog Ics
- Logic IC
- 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
- Hangzhou Lion Microelectronics
- Hangzhou Semiconductor Wafer
- GRINM Semiconductor Materials
- Shanghai Advanced Silicon Technology (AST)
- XiAn ESWIN Technology Group
- Soitec
- Zhejiang MTCN Technology
- Hebei Puxing Electronic Technology
- Nanjing Guosheng Electronics

- MCL Electronic Materials

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 8-inch Wafer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 8-inch Wafer, with price, sales quantity, revenue, and global market share of 8-inch Wafer from 2019 to 2024.

Chapter 3, the 8-inch Wafer competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 8-inch 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 8-inch 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 8-inch Wafer.

Chapter 14 and 15, to describe 8-inch Wafer sales channel, distributors, customers, research findings and conclusion.

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