

Global 6-inch Semiconductor Silicon Wafers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 6-inch Semiconductor Silicon Wafers market size is expected to reach \$ 948 million by 2032, rising at a market growth of 0.6% CAGR during the forecast period (2026-2032).

6-inch / 150 mm semiconductor silicon wafers are semiconductor-grade silicon substrates manufactured from high-purity single-crystal silicon through crystal growth, slicing, edge grinding, lapping, etching, polishing, cleaning, inspection and, where required, epitaxy, annealing, diffusion, SOI bonding or layer-transfer processes. This research focuses on 150 mm silicon wafers used in semiconductor device fabrication, including polished wafers, epitaxial wafers, SOI wafers, float-zone wafers, annealed wafers, diffused wafers, test wafers and monitor wafers. These wafers are mainly used in power discretes, analog ICs, MEMS, sensors, RF devices, optoelectronics and selected mature-node semiconductor manufacturing processes. Although 150 mm wafers are no longer the primary platform for advanced logic and memory production, they remain structurally relevant in specialty semiconductor manufacturing, long-lifecycle device platforms and high-reliability industrial applications.

The 6-inch / 150 mm semiconductor silicon wafer market is a mature but structurally resilient segment of the semiconductor materials industry. Its growth is no longer driven by leading-edge logic or memory capacity expansion, but by specialty devices, long-lifecycle manufacturing platforms and supply-chain security requirements. Compared with 300 mm wafers, 150 mm wafers are less relevant for advanced logic, DRAM and NAND production; however, they remain important in power discretes, analog ICs, MEMS, sensors, RF devices, high-resistivity wafers, SOI platforms and selected specialty processes. The core competitive factors are not rapid scale expansion, but process stability, wafer consistency, customer qualification history and long-term supply

reliability.

From a supply perspective, the market can be divided into three layers: global wafer groups, specialty wafer suppliers and regional manufacturers. Large silicon wafer groups maintain broad technology portfolios and multi-region manufacturing networks. Specialty suppliers focus on SOI, high-resistivity silicon, float-zone silicon, MEMS/RF substrates and engineered wafers. Chinese suppliers have become increasingly relevant in 6-inch and 8-inch wafer supply, driven by local demand from power devices, mature-node fabs, analog manufacturers and sensor companies. Because many suppliers operate across 150 mm, 200 mm and 300 mm products, a strict distinction must be made between the broad vendor pool and the revenue model for 150 mm wafers.

On the demand side, the long-term base of the market is supported by power devices, industrial electronics, automotive electronics, MEMS, sensors, RF front-end components and mature-node semiconductor production. Some legacy analog and discrete device processes remain economically suitable for 150 mm lines because equipment depreciation is low, process recipes are stable and yield learning is mature. Nevertheless, migration to 200 mm fabs will continue to replace part of the volume demand, particularly in standardized power and analog applications. High-value niches such as SOI, FZ, high-resistivity wafers and thick epitaxial wafers are expected to sustain more resilient pricing and margins.

From a regional competition standpoint, Japan, Taiwan and Europe remain strong in high-consistency wafers, engineered silicon substrates, SOI, FZ and RF/MEMS-related applications. Mainland Chinese suppliers are gaining relevance through local customer proximity, mature-node capacity expansion, power semiconductor localization and 6-inch/8-inch wafer supply chain development. Over the next several years, competition is expected to shift from simple capacity expansion to qualification speed, defect control, epitaxy and SOI capability, batch-to-batch consistency and regional supply assurance.

This report studies the global 6-inch Semiconductor Silicon Wafers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 6-inch Semiconductor Silicon Wafers and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of 6-inch Semiconductor

Silicon Wafers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 6-inch Semiconductor Silicon Wafers total production and demand, 2021-2032, (K Pcs)

Global 6-inch Semiconductor Silicon Wafers total production value, 2021-2032, (USD Million)

Global 6-inch Semiconductor Silicon Wafers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global 6-inch Semiconductor Silicon Wafers consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: 6-inch Semiconductor Silicon Wafers domestic production, consumption, key domestic manufacturers and share

Global 6-inch Semiconductor Silicon Wafers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global 6-inch Semiconductor Silicon Wafers production by Product Form, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global 6-inch Semiconductor Silicon Wafers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global 6-inch Semiconductor Silicon Wafers market based on the following parameters - company overview, production, value, 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, Wafer Works Corporation, National Silicon Industry Group (NSIG), Zhonghuan Advanced Semiconductor Materials, Hangzhou Lion Microelectronics, Hangzhou Semiconductor Wafer, GRINM Semiconductor Materials, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World 6-inch Semiconductor Silicon Wafers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pc) by

manufacturer, by Product Form, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global 6-inch Semiconductor Silicon Wafers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 6-inch Semiconductor Silicon Wafers Market, Segmentation by Product Form:

Polished Wafer

Epitaxial Wafer

Other

Global 6-inch Semiconductor Silicon Wafers Market, Segmentation by Crystal Growth Route:

CZ Silicon Wafer

FZ Silicon Wafer

MCZ Silicon Wafer

Global 6-inch Semiconductor Silicon Wafers Market, Segmentation by Resistivity Class:

Low-resistivity/Heavily Doped Wafer

Standard-resistivity Wafer

High-resistivity Wafer

Other

Global 6-inch Semiconductor Silicon Wafers Market, Segmentation by Application:

Power Discrete Devices

Analog and Mixed-signal Ics

MEMS and Sensors

Others

Companies Profiled:

Shin-Etsu Chemical

SUMCO

GlobalWafers

Siltronic

Wafer Works Corporation

National Silicon Industry Group (NSIG)

Zhonghuan Advanced Semiconductor Materials

Hangzhou Lion Microelectronics

Hangzhou Semiconductor Wafer

GRINM Semiconductor Materials

Soitec

Zhejiang MTCN Technology

Hebei Puxing Electronic Technology

Nanjing Guosheng Electronics

MCL Electronic Materials

Wafer Works (Shanghai) Corporation

Episil-Precision Inc.

Key Questions Answered:

1. How big is the global 6-inch Semiconductor Silicon Wafers market?
2. What is the demand of the global 6-inch Semiconductor Silicon Wafers market?
3. What is the year over year growth of the global 6-inch Semiconductor Silicon Wafers market?
4. What is the production and production value of the global 6-inch Semiconductor Silicon Wafers market?
5. Who are the key producers in the global 6-inch Semiconductor Silicon Wafers market?
6. What are the growth factors driving the market demand?

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