

Global Silicon Wafer Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Silicon Wafer market size is expected to reach \$ 29610 million by 2032, rising at a market growth of 7.9% CAGR during the forecast period (2026-2032).

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.

The major global manufacturers of Silicon Wafer 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), etc. In 2023, the world's top five vendors accounted for approximately 82 % of the revenue.

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.

Currently the 300mm wafers are key segment, holds a share about 75% in terms of value. The 300mm wafers are mainly used in Memory and Logic/MPU; while the 8inch and small diameter wafers are mainly used in Analog, Discrete Device & Sensor.

In next five years, China will play more important role in semiconductor market, more and more companies are entering the semiconductor market, like in silicon wafers, potential entrants include Sichuan Vastity Semiconductor, Anhui Yisemi Semiconductor, and ThinkonSemi ,etc.

This report studies the global Silicon Wafer production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Silicon Wafer 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 Silicon Wafer that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Silicon Wafer total production and demand, 2021-2032, (K Pcs)

Global Silicon Wafer total production value, 2021-2032, (USD Million)

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

Global Silicon Wafer consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: Silicon Wafer domestic production, consumption, key domestic manufacturers and share

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

Global Silicon Wafer production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global Silicon Wafer production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Silicon Wafer 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 AG, SK Siltron, FST Corporation, Wafer Works Corporation, Soitec, National Silicon Industry Group (NSIG), Zhonghuan Advanced 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 Silicon Wafer market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pcs) by manufacturer, by Type, 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 Silicon Wafer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Silicon Wafer Market, Segmentation by Type:

300mm Wafers

200mm Wafers

Small Diameter Wafers (100, 150mm)

Global Silicon Wafer Market, Segmentation by Application:

Memory

Logic/MPU

Analog

Discrete Device & Sensor

Others

Companies Profiled:

Shin-Etsu Chemical

SUMCO

GlobalWafers

Siltronic AG

SK Siltron

FST Corporation

Wafer Works Corporation

Soitec

National Silicon Industry Group (NSIG)

Zhonghuan Advanced Semiconductor Materials

Hangzhou Lion Microelectronics

Hangzhou Semiconductor Wafer +AK12+G1+G12:AD12

GRINM Semiconductor Materials

MCL Electronic Materials

Shanghai Advanced Silicon Technology (AST)

Beijing ESWIN Technology Group

Zhejiang MTCN Technology

Hebei Puxing Electronic Technology

Nanjing Guosheng Electronics

Key Questions Answered:

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

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