

# Global Single Crystal Silicon Wafers (300mm) Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Single Crystal Silicon Wafers (300mm) market size is expected to reach \$ 4269 million by 2032, rising at a market growth of 8.6% CAGR during the forecast period (2026-2032).

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.

In terms of 12inch silicon wafers, the Top 5 players (Shin-Etsu, SUMCO, GlobalWafers, Siltronic, SK Siltron) capture ~80.1%, and the Top 10 reach ~92.3%?a reflection of how difficult it is to scale 300mm capacity while meeting leading-edge quality, uniformity and cost requirements. In practice, 12-inch wafer competition is less about ?who can make wafers? and more about who can consistently supply advanced-grade polished and epitaxial 300mm wafers for high-performance logic and memory, with stable yields and certified process windows over long qualification cycles. Capacity and technology roadmaps are therefore tightly linked: SUMCO, for example, highlights active steps to add 300mm capacity and convert equipment toward leading-edge wafers, underscoring the strategic focus on advanced 300mm demand rather than smaller diameters.

12-inch demand growth is increasingly AI-anchored. QYResearch states that 300mm shipment growth in 2025 is fueled by AI, supporting advanced logic, cloud computing and memory?exactly the applications that consume the most leading-edge 300mm capacity. Meanwhile, the geographic footprint of 300mm wafer supply is gradually broadening for resilience and policy reasons: GlobalWafers opened a major 300mm wafer facility in Sherman, Texas and discussed further U.S. investment plans (with

CHIPS-related support), reflecting the broader trend toward supply-chain localization and multi-region redundancy for critical wafer supply. China's 12-inch ecosystem is also expanding in parallel (both on the fab side and the domestic wafer side): QYResearch expects China's share of 300mm fab capacity to rise meaningfully by 2025, while companies such as ESWIN publicly describe their Xi'an line as producing 12-inch polished and epitaxial wafers—a marker of domestic substitution efforts that can reshape the long tail of the 12-inch supply landscape over time. This report studies the global Single Crystal Silicon Wafers (300mm) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Single Crystal Silicon Wafers (300mm) 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 Single Crystal Silicon Wafers (300mm) that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Single Crystal Silicon Wafers (300mm) total production and demand, 2021-2032, (K Pcs)

Global Single Crystal Silicon Wafers (300mm) total production value, 2021-2032, (USD Million)

Global Single Crystal Silicon Wafers (300mm) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global Single Crystal Silicon Wafers (300mm) consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: Single Crystal Silicon Wafers (300mm) domestic production, consumption, key domestic manufacturers and share

Global Single Crystal Silicon Wafers (300mm) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global Single Crystal Silicon Wafers (300mm) production by Technology, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global Single Crystal Silicon Wafers (300mm) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Single Crystal Silicon Wafers (300mm) 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, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Single Crystal Silicon Wafers (300mm) market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (USD/Pcs) by manufacturer, by Technology, 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 Single Crystal Silicon Wafers (300mm) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Single Crystal Silicon Wafers (300mm) Market, Segmentation by Technology:

300mm Polished Silicon Wafer

300mm Epitaxial Silicon Wafer

300mm Annealed Silicon Wafer

300mm SOI Silicon Wafer

## Global Single Crystal Silicon Wafers (300mm) Market, Segmentation by Growth Method:

Czochralski (CZ) Method

Magnetic Czochralski (MCZ) Method

Float Zone (FZ) Method

## Global Single Crystal Silicon Wafers (300mm) Market, Segmentation by Application:

Memory

Logic/MPU

Others

## **Companies Profiled:**

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

Wafer Works (Shanghai) Corporation

**Key Questions Answered:**

1. How big is the global Single Crystal Silicon Wafers (300mm) market?
2. What is the demand of the global Single Crystal Silicon Wafers (300mm) market?
3. What is the year over year growth of the global Single Crystal Silicon Wafers (300mm) market?
4. What is the production and production value of the global Single Crystal Silicon Wafers (300mm) market?
5. Who are the key producers in the global Single Crystal Silicon Wafers (300mm) market?
6. What are the growth factors driving the market demand?

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