

North America Semiconductor Silicon Wafer Market Forecast to 2031 - Regional Analysis- by Type (Up to 150 mm, Diameter 200mm, Diameter 300mm, and Diameter 450mm), Application (Consumer Electronics, Industrial, Telecommunications, Automotive, and Others), and Node Type (180 nm, 130 nm, 90 nm, 65 nm, 45 nm, 22 nm, 14 nm, 7 nm, 5 nm and Below, and Others)

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Abstracts

The North America semiconductor silicon wafer market was valued at US\$ 1,863.06 million in 2023 and is expected to reach US\$ 2,604.92 million by 2031; it is estimated to register a CAGR of 4.3% from 2023 to 2031.

Surge in Demand for Consumer Electronics Fuels North America Semiconductor Silicon Wafer Market

The demand for tablets, smartphones, wearables, and other consumer electronics devices, such as smartwatches, fitness trackers, VR headsets, and headsets, is increasing worldwide. These consumer electronics are used for various purposes, which include accurate tracking of real-time data and providing enhanced convenience. According to the Groupe Speciale Mobile Association (GSMA), smartphone adoption across the globe was 76% in 2022, totaling 6.4 billion smartphone connections. The adoption is expected to reach 92% by 2030, making 9 billion connections worldwide. As per the same report, smartphone adoption in North America was 84% in 2022 and is expected to rise to 90% by 2030.

In multiple industries, wearables are utilized in tracking and managing personnel. For example, miners can be tracked under deep tunnels and alerted with a notification if signs of distress occur. Similarly, wearables are used for patients suffering from dementia to track their location if they go missing or get themselves in situations that require emergency help. As semiconductors such as silicon wafers can be used to manufacture chips and microchips in electronic devices, their demand is increasing worldwide. In addition, silicon wafers are used for the production of ICs, which is one of the important parts of various electronic devices, further boosting its demand. Thus, the growing demand for consumer electronics drives the North America semiconductor silicon wafer market .

North America Semiconductor Silicon Wafer Market Overview

North America has a significant share of the semiconductor silicon wafer market. The region has a vast presence of various fabless companies such as Qualcomm, Altera, LSI Corporation, Marvell Technology, Nvidia, ATI Technologies Inc, etc. Further, the region is also conducting various research and development activities on microelectronics, thereby increasing the production of silicon wafers. For example, in July 2024, as part of the Investing in America tour, the Biden-Harris Administration announced that the US Department of Commerce and GlobalWafers America, LLC and MEMC LLC ("MEMC"), subsidiaries of GlobalWafers Co., Ltd. ("GlobalWafers"), have signed a nonbinding preliminary memorandum of terms (PMT) to provide up to US \$400 million in proposed direct funding under the CHIPS and Science Act to help onshore critical semiconductor wafer production and advance US-based technology leaders. President Biden signed the bipartisan CHIPS and Science Act, a crucial component of the Investing in America plan, ushering in a new era of semiconductor production in the US. The proposed CHIPS investment will fund the development of new wafer production facilities, creating 1,700 construction jobs and 880 manufacturing jobs. Such government initiatives across the region drive the semiconductor silicon wafer market.

North America Semiconductor Silicon Wafer Market Revenue and Forecast to 2031 (US\$ Million)

North America Semiconductor Silicon Wafer Market Segmentation

The North America semiconductor silicon wafer market is categorized into type, application, node type, and country.

By type, the North America semiconductor silicon wafer market is segmented into Up to

150 mm, Diameter 200mm, Diameter 300mm, and Diameter 450mm. The Diameter 300mm segment held the largest share of the North America semiconductor silicon wafer market share in 2023.

In terms of application, the North America semiconductor silicon wafer market is segmented into consumer electronics, industrial, telecommunications, automotive, and others. The consumer electronics segment held the largest share of the North America semiconductor silicon wafer market share in 2023.

Based on node type, the North America semiconductor silicon wafer market is segmented into 180 nm, 130 nm, 90 nm, 65 nm, 45 nm, 22 nm, 14 nm, 7 nm, 5 nm and Below, and Others. The 7 nm segment held the largest share of the North America semiconductor silicon wafer market share in 2023.

Based on country, the North America semiconductor silicon wafer market is segmented into the US, Canada, and Mexico. The US segment held the largest share of North America semiconductor silicon wafer market in 2023.

Alfa Chemistry; Ferrotec Holdings Corporation; Fujimi Incorporated; GlobalWafers Co., Ltd; NANOCHEMAZONE; Nanografi Nano Technology; Okmetic; Shin-Etsu Chemical Co Ltd; Silicon Materials, Inc.; Siltronic AG; Sino-American Silicon Products Inc.; SK Siltron Co., Ltd; SUMCO CORPORATION; Wafer Works Corp; Wafer World Inc.; and WaferPro are the among leading companies operating in the North America semiconductor silicon wafer market.

Reason to buy

Save and reduce time carrying out entry-level research by identifying the growth, size, leading players, and segments in the North America semiconductor silicon wafer market.

Highlights key business priorities to assist companies to realign their business strategies.

The key findings and recommendations highlight crucial progressive industry trends in the North America semiconductor silicon wafer market, thereby allowing players across the value chain to develop effective long-term strategies.

Develop/modify business expansion plans by using substantial growth offering

developed and emerging markets.

Scrutinize in-depth North America market trends and outlook coupled with the factors driving the North America semiconductor silicon wafer market, as well as those hindering it.

Enhance the decision-making process by understanding the strategies that underpin commercial interest with respect to client products, segmentation, pricing, and distribution.

The List of Companies - North America Semiconductor Silicon Wafer Market

Alfa Chemistry

Ferrotec Holdings Corporation

Fujimi Incorporated

GlobalWafers Co., Ltd

NANOCHEMAZONE

Nanografi Nano Technology

Okmetic

Shin-Etsu Chemical Co Ltd

Silicon Materials, Inc.

Siltronic AG

Sino-American Silicon Products Inc.

SK Siltron Co., Ltd

SUMCO CORPORATION

Wafer Works Corp

Wafer World Inc.

WaferPro

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