

Global Chemical Concentration Monitors for Semiconductor Market Growth 2025-2031

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Abstracts

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The global Chemical Concentration Monitors for Semiconductor market size is predicted to grow from US\$ 167 million in 2025 to US\$ 260 million in 2031; it is expected to grow at a CAGR of 7.7% from 2025 to 2031.

A Chemical Concentration Monitor for Semiconductor is a specialized analytical tool used to precisely monitor and control the concentration of chemical solutions in semiconductor manufacturing processes. These systems play a critical role in ensuring the consistency, quality, and efficiency of various processes, such as etching, cleaning, and deposition, where precise chemical concentrations are essential for achieving desired outcomes.

At present, the explosive growth of global demand for artificial intelligence (AI) and high-performance computing (HPC) has accelerated the development progress of cutting-edge technologies, the commercialization of products, market development, and the layout of the industrial chain, effectively driving the market demand for related computing power and storage chips. After two years of technological improvements and ecological construction, emerging consumer electronic products such as smart wearable devices and smart homes have given birth to hot products such as AppleVision, becoming an important driving force for the growth of the semiconductor market. Automotive electronics, lithium batteries, photovoltaics and other previous high-speed growth fields have entered a critical window period for technology route selection and technology pattern reconstruction. New formats and models such as industrial Internet, smart medical care, and smart cities are accelerating their transformation, empowering social development and bringing about an increase in overall

semiconductor market demand. According to statistics from the World Integrated Circuit Association (WICA), the global semiconductor market size in 2024 was about US\$620.2 billion, a year-on-year increase of 17%.

From the perspective of product structure, it is expected that the two main integrated circuit categories will drive market growth with double-digit growth, with logic chips expected to grow by 21% and memory expected to grow by 61.3%. Other categories such as discrete devices, optoelectronic devices, sensors and analog chips are expected to have a negative growth of 2%-10%. Thanks to the surge in demand for computing chips from AI big models such as ChatGPT, the market growth rate of logic chips such as GPU, FPGA, and ASIC in 2024 will be 4 percentage points higher than the industry average. The current market demand for Hopper remains strong, and AI manufacturers expect continued growth in Blackwell. With the repeated computing upgrades of AI big models, the market demand for high-performance logic chips will continue to rise in the future. By 2030, the semiconductor market size is expected to reach US\$1 trillion, with a compound annual growth rate of approximately 8%.

Chemical Concentration Monitors for Semiconductor is an important equipment throughout the etching and cleaning processes in wafer production. It is used to accurately monitor the concentration of various chemical solutions. In the semiconductor manufacturing process, consistent chemical concentration is essential to ensure the quality, reliability and performance of wafers. According to our data, the global sales of Chemical Concentration Monitors for Semiconductor in 2024 will be 6,600 units, and it is expected to exceed 10,000 units by 2030, with a compound annual growth rate of approximately 8.3%.

From the perspective of production regions, Japan, represented by manufacturers such as HORIBA, KURABO INDUSTRIES, and Fuji Ultrasonic Engineering, contributed more than 80% of the industry's output in 2024, followed by Europe and the United States. From the perspective of consumption regions, the Asia-Pacific region account for about 75% of the global revenue share in 2024, while major countries such as China, Japan, Taiwan, and South Korea will account for 27%, 25%, 21%, and 18% of the Asia-Pacific revenue, respectively.

At present, the main players in the Chemical Concentration Monitors for Semiconductor market include HORIBA, Entegris, KURABO INDUSTRIES, ABB, CI Semi (CI Systems), Fuji Ultrasonic Engineering, SensoTech, PIMACS, Rhosonics BV, KxS Technologies, etc. In 2024, the global TOP5 accounted for more than 90% of the market share. According to our analysis, the industry will still maintain a high degree of concentration

in the short term. Chemical Concentration Monitors for Semiconductor can be mainly divided into online and offline types. In 2024, the market share of online products exceed 80%. The online type can monitor the concentration changes of chemical solutions in real time and provide immediate feedback to the production control system. It is an important part of realizing the automation and intelligence of semiconductor production. The semiconductor wet cleaning process is of great significance to improving product yield and reliability. It is also the main application area of Chemical Concentration Monitors for Semiconductors. In 2024, the market share of semiconductor cleaning field was nearly 60%.

With the rapid development of the global technology industry, the semiconductor industry, as one of the core driving forces of modern technology, will continue to expand its market size, which provides a strong driving force for the rapid development of the Chemical Concentration Monitors for Semiconductor market.

LP Information, Inc. (LPI) ' newest research report, the "Chemical Concentration Monitors for Semiconductor Industry Forecast" looks at past sales and reviews total world Chemical Concentration Monitors for Semiconductor sales in 2024, providing a comprehensive analysis by region and market sector of projected Chemical Concentration Monitors for Semiconductor sales for 2025 through 2031. With Chemical Concentration Monitors for Semiconductor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Chemical Concentration Monitors for Semiconductor industry.

This Insight Report provides a comprehensive analysis of the global Chemical Concentration Monitors for Semiconductor landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Chemical Concentration Monitors for Semiconductor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Chemical Concentration Monitors for Semiconductor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Chemical Concentration Monitors for Semiconductor and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global

Chemical Concentration Monitors for Semiconductor.

This report presents a comprehensive overview, market shares, and growth opportunities of Chemical Concentration Monitors for Semiconductor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

- Online Measurement System

- Offline Measurement System

Segmentation by Application:

- Semiconductor Cleaning

- Semiconductor Etching

- Others

This report also splits the market by region:

- Americas

 - United States

 - Canada

 - Mexico

 - Brazil

- APAC

 - China

 - Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

HORIBA

Entegris

CI Semi (CI Systems)

ABB

Kurabo Industries

PIMACS

SensoTech

Rhosonics BV

Fuji Ultrasonic Engineering

KxS Technologies

Vaisala

Key Questions Addressed in this Report

What is the 10-year outlook for the global Chemical Concentration Monitors for Semiconductor market?

What factors are driving Chemical Concentration Monitors for Semiconductor market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Chemical Concentration Monitors for Semiconductor market opportunities vary by end market size?

How does Chemical Concentration Monitors for Semiconductor break out by Type, by Application?

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