

Global Semiconductor Cleaning and Etching Gas Market Research Report 2026(Status and Outlook)

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Abstracts

Semiconductor Cleaning Gas are gases utilized to remove various contaminants from the surface of semiconductor wafers. Contaminants can include organic substances, metal ions, particles, and residual substances from previous process steps. Cleaning gases work through physical or chemical actions to ensure the wafer surface is clean and suitable for subsequent manufacturing processes.

Common Types

Hydrogen Chloride (HCl): It is often used to remove metal impurities on the wafer surface. HCl can react with metal oxides to form soluble metal chlorides, which can then be easily washed away.

Ammonia (NH₃): Ammonia is commonly employed for cleaning organic contaminants. It can dissolve and remove organic substances through chemical reactions and hydrogen bonding interactions.

Oxygen (O₂): Oxygen is frequently used in plasma cleaning processes. In a plasma environment, oxygen can react with organic contaminants to form carbon dioxide and water, which are volatile and can be removed from the wafer surface.

Etching gases are gases that are used to selectively remove or etch specific materials from the semiconductor wafer surface to create precise patterns and structures. This is a crucial process in defining the various components and circuits on the semiconductor device.

Common Types

Chlorine-based Gases: Such as chlorine (Cl₂) and boron trichloride (BCl₃). They are often used for etching metals and silicon. For example, Cl₂ can react with silicon to form silicon tetrachloride (SiCl₄), which is a volatile compound and can be removed from the wafer surface, thereby achieving the etching of silicon.

Fluorine-based Gases: Such as fluorine (F₂), sulfur hexafluoride (SF₆), and nitrogen trifluoride (NF₃). Fluorine-based gases are widely used for etching silicon dioxide and silicon nitride. SF₆, for instance, can react with silicon dioxide in a plasma environment to form silicon tetrafluoride (SiF₄) and other volatile fluorides, enabling the precise removal of silicon dioxide layers.

Hydrogen Bromide (HBr): HBr is used for etching certain metal layers and silicon in some semiconductor processes. It can react with the target material to form volatile bromides, which are then removed

from the surface. The Semiconductor Industry Association (SIA) announced global semiconductor sales hit \$627.6 billion in 2024, an increase of 19.1% compared to the 2023 total of \$526.8 billion. Additionally, fourth-quarter sales of \$170.9 billion were 17.1% more than the fourth quarter of 2023, and 3.0% higher than the third quarter of 2024. And global sales for the month of December 2024 were \$57.0 billion, a decrease of 1.2% compared to the November 2024 total. The global semiconductor market experienced its highest-ever sales year in 2024, topping \$600 billion in annual sales for the first time, and double-digit market growth is projected for 2025, said John Neuffer, SIA president and CEO. Semiconductors enable virtually all modern technologies including medical devices, communications, defense applications, AI, advanced transportation, and countless others and the long-term industry outlook is incredibly strong. Semiconductor cleaning and etching gases are special gases used in the semiconductor manufacturing process to clean semiconductor wafers and etch specific materials on them. In terms of semiconductor cleaning and etching gas production, Japan and South Korea are currently the world's largest high-end semiconductor cleaning and etching gas production regions, and export to many countries around the world. At the same time, with the development of industry, customers have put forward more quality requirements and higher technical indicators for Semiconductor Cleaning and Etching Gases as their key raw materials. Semiconductor Cleaning and Etching Gas companies should actively improve product quality to make their products attractive in the market. The main semiconductor cleaning and etching gas manufacturers in the market include SK Materials, Kanto Denka Kogyo, Resonac, Linde Group, Peric, Hyosung, etc. Japanese and Korean companies have a large share in the high-end market, among which the top five companies in 2023 accounted for 49.44% of the revenue market share. With the rapid rise of China's semiconductor industry and the government's strong support for the semiconductor industry, Chinese companies will continue to increase their R&D investment, enhance their independent R&D capabilities, and develop a series of high-purity, high-performance cleaning and etching gases.

The global Semiconductor Cleaning and Etching Gas market size was estimated at USD 1821.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 7.60% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Semiconductor Cleaning and Etching Gas market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Semiconductor Cleaning and Etching Gas market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Semiconductor Cleaning and Etching Gas market.

Global Semiconductor Cleaning and Etching Gas Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

SK Materials

Kanto Denka Kogyo

Resonac

Linde Group

Peric

Hyosung

Taiyo Nippon Sanso
Merck KGaA
Mitsui Chemical
Central Glass
Haohua Chemical Science & Technology
Shandong FeiYuan
Messer Group
Air Liquide
Huate Gas

Market Segmentation (by Type)

Fluoride Gas
Chloride Gas
Others

Market Segmentation (by Application)

Semiconductor Cleaning
Semiconductor Etching

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Semiconductor Cleaning and Etching Gas Market

Overview of the regional outlook of the Semiconductor Cleaning and Etching Gas Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Semiconductor Cleaning and Etching Gas Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential

of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Semiconductor Cleaning and Etching Gas, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change
This enables you to anticipate market changes to remain ahead of your competitors
You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent

developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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