

Global High Purity Fluorocarbon Gas Market Research Report 2026(Status and Outlook)

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Abstracts

Fluorocarbons, sometimes referred to as perfluorocarbons or PFCs, are organofluorine compounds with the formula C_xF_y , i.e., they contain only carbon and fluorine. ... Compounds with the prefix perfluoro- are hydrocarbons, including those with heteroatoms, wherein all C-H bonds have been replaced by C-F bonds. Electronics Manufacturing industries that use fluorocarbon gases for etching and chamber cleaning include liquid crystal displays (LCDs), photovoltaic cells (PV), and semiconductors (including light-emitting diodes). A range of gases are used in two important steps of electronics manufacturing: Plasma etching silicon containing materials and cleaning chemical vapour deposition (CVD) tool chamber-walls where silicon has deposited. The use of fluorocarbon gases in these processes is crucial to the production of devices, as there are no effective substitutes that can be utilized. In the current global electronic gas market, fluorine-containing special gases account for 30% of the total. In the semiconductor field, according to different uses, fluorine-containing electronic special gases can be divided into fluorine-containing cleaning gases and fluorine-containing etching gases. Fluorine-containing etching gases are widely used in semiconductor processes such as thin films, etching, doping, vapor deposition and diffusion. Etching methods include wet chemical etching and dry chemical etching. Dry etching is increasingly used due to its strong etching directionality, accurate process control, convenience, no detoxification, no substrate damage and impurities. Etching is the process of etching the processed surface of the substrate that is not masked by the photoresist, such as silicon oxide film, metal film, etc., to obtain the area masked by the photoresist, so as to obtain the desired imaging pattern on the substrate surface. The basic requirements for etching are clean pattern edges, clear lines, small pattern transformation differences, and no damage and drilling erosion on the photoresist film and its mask protection surface. The main varieties of fluorine-containing etchants include tetrafluoromethane, trifluoromethane, difluoromethane, hexafluoroethane,

octafluorocyclobutane, hexafluorobutadiene, etc. The semiconductor cleaning process mainly removes particles and metal pollutants, organic matter on silicon wafers, removes resists during etching and wiring processes, removes compounds, and cleans after CMP (chemical mechanical polishing). Since the components and connections in the integrated circuit are quite fine, if they are contaminated by dust particles and metals during the component manufacturing process, it is easy to cause damage to the circuit function in the chip, forming short circuits or open circuits, etc., leading to the failure of the integrated circuit and affecting the formation of geometric features. Therefore, in addition to eliminating external pollution sources during the manufacturing process, cleaning work is required in the integrated circuit manufacturing steps such as high-temperature diffusion and before ion implantation. Fluorine-containing cleaning agents show good performance in semiconductor and electronic industry cleaning, especially dry cleaning. Fluorine-containing cleaning agents have a low boiling point and exist in the gas phase at room temperature, so they are easy to perform dry gas phase cleaning. Traditional fluorine-containing cleaning gases mainly include carbon tetrafluoride, hexafluoroethane, etc. With the continuous improvement of environmental requirements, the representative new generation of cleaner and more efficient fluorine-containing cleaning gases is difluoromethylene oxide, and others such as fluorine gas and chlorine trifluoride. Electronics Manufacturing industries that use fluorocarbon gases for etching and chamber cleaning include liquid crystal displays (LCDs), photovoltaic cells (PV), and semiconductors (including light-emitting diodes). A range of gases are used in two important steps of electronics manufacturing: Plasma etching silicon containing materials and cleaning chemical vapour deposition (CVD) tool chamber-walls where silicon has deposited. Currently, the many Fluorocarbon Gas market is highly concentrated, dominated by several manufacturers, players such as SLinde Gas, Showa Denko, Taiyo Nippon Sanso, Air Liquide, Kanto Denka Kogyo, Merck, Foosung Co., Ltd., SK Materials, Huate Gas, Kemeite (Yoke Technology), Haohua, Jinhong Gas, etc, are playing important roles in Fluorocarbon Gas industry. Top 5 took up more than 75% of the global market in 2024, in terms of revenue. The Fluorocarbon Gas market is global, with key demand centers in China, Europe, Japan, South Korea, Southeast Asia, China Taiwan and the United States. Since the Fluorocarbon Gas main end users are semiconductor and display panels, with the focus of semiconductors industry shifts to Southeast Asia, China and other Asia countries, the Asia-Pacific will have a better huge demand of Fluorocarbon Gas. The Fluorocarbon Gas is mainly used in Integrated Circuits, Display panels, solar and LED industry. Integrated Circuits is the largest consumer group, with consumption market share of 72% in 2024. The semiconductor industry is the largest user of Fluorocarbon Gas and has the most diverse Fluorocarbon Gas requirements in terms of products, package sizes and purity requirements. The semiconductor industry uses all the different specialty gases produced. Purities are

typically 4N and above and the packages can range from small cylinders to tonner/Y packages to tube trailers. The Fluorocarbon Gas market is global, with key demand centers in China, Europe, Japan, Korea, Southeast Asia, Taiwan and the United States. The display panels community is the second largest user group for Fluorocarbon Gas. However, the breadth of Fluorocarbon Gas products used in panel fabs is much more limited than in the semiconductor industry. Fluorocarbon Gas use has grown with the development of the panels industry across both TFT-LCD segment and AMOLED segment, with many large end users in Korea, China, Taiwan, and Japan. Korea and China boast large Fluorocarbon Gas supply infrastructures geared towards serving the panels industry.

The global High Purity Fluorocarbon Gas market size was estimated at USD 1476.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 7.30% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global High Purity Fluorocarbon 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 High Purity Fluorocarbon 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 High Purity Fluorocarbon Gas market.

Global High Purity Fluorocarbon 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

Linde Gas
Resonac
Taiyo Nippon Sanso
Air Liquide
Kanto Denka Kogyo
Merck
Foosung Co., Ltd.
SK Materials
Solvay
Huatae Gas
Kemeite (Yoke Technology)
Haohua Chemical Science & Technology
Jinhong Gas
Linggas
Juhua Group
PERIC Special Gases
Yongjing Technology
GrandiT Co., Ltd.

Market Segmentation (by Type)

Tetrafluoromethane (CF₄)
Hexafluoroethane (C₂F₆)
Octafluoropropane (C₃F₈)
Hexafluorobutadiene (C₄F₆)
Octafluorocyclobutane (C₄F₈)

Tetrafluoromethane (CHF₃)
Others

Market Segmentation (by Application)

Integrated Circuits
Display Panels
Solar
LED & Others

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 High Purity Fluorocarbon Gas Market
Overview of the regional outlook of the High Purity Fluorocarbon 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 High Purity Fluorocarbon 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 High Purity Fluorocarbon 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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