

# Global Fluorocarbon Gas Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Fluorocarbon Gas market size was valued at USD 727.1 million in 2023 and is forecast to a readjusted size of USD 1045.8 million by 2030 with a CAGR of 5.3% during review period.

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 Compounds with the prefix perfluoro- are hydrocarbons, including those with heteroatoms, wherein all C-H bonds have been replaced by C-F bonds.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.

Top 2 manufacturers of fluorocarbon gas are Linde Gas and Showa Denko. These 2 companies account for about 25% of global production. Geographically speaking, Asia-Pacific is the largest market and covers over 70% of total market share. In terms of type, tetrafluoromethane ( $CF_4$ ) is most popular and has a market share of over 30%, followed by hexafluoroethane ( $C_2F_6$ ) which has about 25% market share. In terms of application, integrated circuits is the dominant product using fluorocarbon gas and accounts for over 65% market share.

The Global Info Research report includes an overview of the development of the

Fluorocarbon Gas industry chain, the market status of Integrated Circuits (Tetrafluoromethane (CF<sub>4</sub>), Hexafluoroethane (C<sub>2</sub>F<sub>6</sub>)), Display Panels (Tetrafluoromethane (CF<sub>4</sub>), Hexafluoroethane (C<sub>2</sub>F<sub>6</sub>)), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Fluorocarbon Gas.

Regionally, the report analyzes the Fluorocarbon Gas markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Fluorocarbon Gas market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Fluorocarbon Gas market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Fluorocarbon Gas industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (MT), revenue generated, and market share of different by Type (e.g., Tetrafluoromethane (CF<sub>4</sub>), Hexafluoroethane (C<sub>2</sub>F<sub>6</sub>)).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Fluorocarbon Gas market.

**Regional Analysis:** The report involves examining the Fluorocarbon Gas market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Fluorocarbon Gas market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Fluorocarbon Gas:

**Company Analysis:** Report covers individual Fluorocarbon Gas manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Fluorocarbon Gas. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Integrated Circuits, Display Panels).

**Technology Analysis:** Report covers specific technologies relevant to Fluorocarbon Gas. It assesses the current state, advancements, and potential future developments in Fluorocarbon Gas areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Fluorocarbon Gas market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Fluorocarbon Gas market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

Tetrafluoromethane (CF<sub>4</sub>)

Hexafluoroethane (C<sub>2</sub>F<sub>6</sub>)

Octafluoropropane (C<sub>3</sub>F<sub>8</sub>)

Hexafluorobutadiene (C<sub>4</sub>F<sub>6</sub>)

Octafluorocyclobutane (C4F8)

Tetrafluoromethane (CHF3)

Others

#### Market segment by Application

Integrated Circuits

Display Panels

Solar

LED & Others

#### Major players covered

Linde Gas

Showa Denko

Taiyo Nippon Sanso

Air Liquide

Kanto Denka Kogyo

Versum Materials (Merck)

Foosung Co., Ltd.

SK Materials

Huate Gas

Kemeite (Yoke Technology)

Haohua

Jinhong Gas

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Fluorocarbon Gas product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Fluorocarbon Gas, with price, sales, revenue and global market share of Fluorocarbon Gas from 2019 to 2024.

Chapter 3, the Fluorocarbon Gas competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Fluorocarbon Gas breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Fluorocarbon Gas market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Fluorocarbon Gas.

Chapter 14 and 15, to describe Fluorocarbon Gas sales channel, distributors, customers, research findings and conclusion.

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