

Global Fluorocarbon Gases 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 Gases market size was valued at USD 727.1 million in 2023 and is forecast to a readjusted size of USD 1047.8 million by 2030 with a CAGR of 5.4% 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 Compounds with the prefix perfluoro- are hydrocarbons, including those with heteroatoms, wherein all C-H bonds have been replaced by C-F bonds.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 Gases industry chain, the market status of Consumer Electronics (Medical Grade, Chemical Grade), Automotive (Medical Grade, Chemical Grade), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Fluorocarbon Gases.

Regionally, the report analyzes the Fluorocarbon Gases 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 Gases market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Fluorocarbon Gases 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 Gases 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 (K L), revenue generated, and market share of different by Type (e.g., Medical Grade, Chemical Grade).

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 Gases market.

Regional Analysis: The report involves examining the Fluorocarbon Gases 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 Gases 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 Gases:

Company Analysis: Report covers individual Fluorocarbon Gases 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 Gases. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Consumer Electronics, Automotive).

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

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Fluorocarbon Gases 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 Gases 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

Medical Grade

Chemical Grade

Other

Market segment by Application

Consumer Electronics

Automotive

Chemicals

Semiconductors

Healthcare

Major players covered

Daikin Industries

Electronic Fluorocarbons

INOX

Hindustan Fluorocarbons

SRF

Arkema

Linde

Honeywell International

Chemours

Praxair

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 Gases product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Fluorocarbon Gases 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 Gases 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 Gases.

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

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