

Global Fluorocarbon Gas Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Fluorocarbon Gas market size will reach 1,667.39 Million USD in 2025 and is projected to reach 2,718.01 Million USD by 2032, with a CAGR of 7.23% (2025-2032). Notably, the China Fluorocarbon Gas market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Fluorocarbon gas refers to a group of compounds composed of carbon and fluorine atoms, often containing other halogens like chlorine or bromine. These gases are characterized by their stability, non-flammability, and resistance to chemical reactions, making them valuable in various industrial applications. Some common fluorocarbon gases include hydrochlorofluorocarbons (HCFCs), hydrofluorocarbons (HFCs), and perfluorocarbons (PFCs). HCFCs and HFCs have been used as refrigerants and aerosol propellants, while PFCs find applications in electronics manufacturing and as etching gases in the semiconductor industry. Fluorocarbon gases have been developed as alternatives to chlorofluorocarbons (CFCs) due to concerns about the environmental impact of CFCs on ozone depletion. However, certain fluorocarbons, particularly PFCs, have raised environmental and climate-related concerns due to their high global warming potential (GWP), leading to efforts to find more environmentally friendly alternatives in various industrial processes.

The major global manufacturers of Fluorocarbon Gas include 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, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Fluorocarbon Gas. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Fluorocarbon Gas market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Fluorocarbon Gas market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Fluorocarbon Gas industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Fluorocarbon Gas Include:

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

Fluorocarbon Gas Product Segment Include:

Tetrafluoromethane (CF₄)

Hexafluoroethane (C₂F₆)

Octafluoropropane (C₃F₈)

Hexafluorobutadiene (C₄F₆)

Octafluorocyclobutane (C₄F₈)

Tetrafluoromethane (CHF₃)

Others

Fluorocarbon Gas Product Application Include:

Integrated Circuits

Display Panels

Solar

LED & Others

Chapter Scope

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

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