

Global Fluorine Containing Electronic Special 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 Fluorine Containing Electronic Special Gas market size will reach 4,011.84 Million USD in 2025 and is projected to reach 7,300.90 Million USD by 2032, with a CAGR of 8.93% (2025-2032). Notably, the China Fluorine Containing Electronic Special 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

Fluorine-containing electronic special gas refers to gases used in electronic and semiconductor manufacturing processes that contain fluorine compounds. These gases play a critical role in various applications within the semiconductor industry, particularly in processes such as plasma etching, chemical vapor deposition (CVD), and cleaning steps. Fluorine-containing gases, such as sulfur hexafluoride (SF₆), hexafluoroethane (C₂F₆), or trifluoromethane (CHF₃), are chosen for their unique chemical properties, including high reactivity and selectivity. They are employed to selectively remove or deposit materials on semiconductor wafers during the fabrication of integrated circuits. The controlled use of these gases is essential for achieving precise and reliable results in semiconductor manufacturing, contributing to the miniaturization and performance improvements of electronic devices. However, it's worth noting that the environmental impact and potential safety concerns associated with some fluorine-containing gases have led to increased scrutiny and the development of more sustainable alternatives in the semiconductor industry.

The major global manufacturers of Fluorine Containing Electronic Special Gas include Linde, Showa Denko, Solvay, Nippon Sanso, Air Liquide, Air Products, Kanto Denka Kogyo, Concorde Specialty Gases, Merck (Versum Materials), Foosung Co., Ltd., Hyosung Chemical, Matheson Tri-Gas, Central Glass, SK Materials, Huate Gas, Kemeite (Yoke Technology), Haohua Chemical Science & Technology, Jinhong Gas, Linggas, Juhua Group, PERIC Special Gases, Zibo Feiyuan Chemical, Yongjing Technology, Zhuoxi Gas, Mitsui Chemical, 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 Fluorine Containing Electronic Special 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 Fluorine Containing Electronic Special 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 Fluorine Containing Electronic Special 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 Fluorine Containing Electronic Special 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 Fluorine Containing Electronic Special Gas Include:

Linde

Showa Denko

Solvay

Nippon Sanso

Air Liquide

Air Products

Kanto Denka Kogyo

Concorde Specialty Gases

Merck (Versum Materials)

Foosung Co., Ltd.

Hyosung Chemical

Matheson Tri-Gas

Central Glass

SK Materials

Huate Gas

Kemeite (Yoke Technology)

Haohua Chemical Science & Technology

Jinhong Gas

Linggas

Juhua Group

PERIC Special Gases

Zibo Feiyuan Chemical

Yongjing Technology

Zhuoxi Gas

Mitsui Chemical

Fluorine Containing Electronic Special Gas Product Segment Include:

F₂

CF₄/C₂F₆/C₃F₈/C₄F₈/C₄F₆

CHF₃

NF₃

COF₂

SF₆

WF₆

Others

Fluorine Containing Electronic Special Gas Product Application Include:

Integrated Circuits

Display Panels

Solar

LED & Others

Chapter Scope

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