

Global Fluorinated Electronic Specialty Gases for Chip Manufacturing Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Fluorinated Electronic Specialty Gases for Chip Manufacturing market size was valued at US\$ 3525 million in 2024 and is forecast to a readjusted size of USD 5924 million by 2031 with a CAGR of 7.8% during review period.

Electronic special gases are essential key chemical materials in the manufacturing process of integrated circuits, flat panel displays, light-emitting diodes, solar cells, etc., and are widely used in chip cleaning, etching, film formation, doping and other processes. Among electronic special gases, fluorine-containing electronic special gases are the most core varieties, accounting for about 30% of the total electronic gas in the global electronic gas market. Fluorine-containing electronic special gases are mainly used in the etching and cleaning sections of chip manufacturing. The etching process follows the coating and photolithography of chip manufacturing. Under the action of radio frequency (RF), fluorine-containing gases form rich plasma, which can react chemically with specific materials on the surface of the wafer to form volatile substances, thereby achieving etching and making device patterns on the surface; while the cleaning process involves almost every process of chip manufacturing. The cleaning gas reacts with silicon-containing and carbon-containing pollutants accumulated in the reaction chamber or on the surface of the wafer without destroying the surface properties and electrical properties of the material to achieve the purpose of cleaning. This requires that the cleaning gas can not only produce a large number of reactive ions for rapid reaction, but also try to avoid the generation of residual deposits in the process. It can be seen that the quality of fluorine-containing electronic special gases used for etching and cleaning directly determines the chip yield and reliability. Given the extremely high difficulty and requirements of molecular design, high-purity preparation

and application technology development of fluorine-containing electronic special gases, they are listed as a 'bottleneck' technology that needs to be overcome in high-end chip manufacturing.

This report is a detailed and comprehensive analysis for global Fluorinated Electronic Specialty Gases for Chip Manufacturing market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Fluorinated Electronic Specialty Gases for Chip Manufacturing market size and forecasts, in consumption value (\$ Million), sales quantity (L), and average selling prices (US\$/L), 2020-2031

Global Fluorinated Electronic Specialty Gases for Chip Manufacturing market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (L), and average selling prices (US\$/L), 2020-2031

Global Fluorinated Electronic Specialty Gases for Chip Manufacturing market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (L), and average selling prices (US\$/L), 2020-2031

Global Fluorinated Electronic Specialty Gases for Chip Manufacturing market shares of main players, shipments in revenue (\$ Million), sales quantity (L), and ASP (US\$/L), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Fluorinated Electronic Specialty Gases for Chip Manufacturing
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Fluorinated Electronic Specialty Gases for

Chip Manufacturing market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SK Materials, Hyosung, Kanto Denka Kogyo, Merck, CSSC Special Gas, Mitsui Chemical, ChemChina, Shandong Feiyuan Gas, Honeywell, Solvay, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Fluorinated Electronic Specialty Gases for Chip Manufacturing market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

CF4

C2F6

C3F8

NF3

SF6

Other

Market segment by Application

Chip Etching

Chip Cleaning

Other

Major players covered

SK Materials

Hyosung

Kanto Denka Kogyo

Merck

CSSC Special Gas

Mitsui Chemical

ChemChina

Shandong Feiyuan Gas

Honeywell

Solvay

AGC

Resonac

Air Liquide

Linde Group

FOOSUNG Group

Air Product

Concorde Specialty Gases

TEMC

Matheson Tri-Gas

Fujian Shaowu Yongfei Chemical

Taiyo Nippon Sanso

Grandit

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 Fluorinated Electronic Specialty Gases for Chip Manufacturing product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Fluorinated Electronic Specialty Gases for Chip Manufacturing, with price, sales quantity, revenue, and global market share of Fluorinated Electronic Specialty Gases for Chip Manufacturing from 2020 to 2025.

Chapter 3, the Fluorinated Electronic Specialty Gases for Chip Manufacturing competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Fluorinated Electronic Specialty Gases for Chip Manufacturing breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

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 2020 to 2025. and Fluorinated Electronic Specialty Gases for Chip Manufacturing market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Fluorinated Electronic Specialty Gases for Chip Manufacturing.

Chapter 14 and 15, to describe Fluorinated Electronic Specialty Gases for Chip Manufacturing sales channel, distributors, customers, research findings and conclusion.

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