

Global Fluorinated Electronic Specialty Gases for Chip Manufacturing Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Fluorinated Electronic Specialty Gases for Chip Manufacturing market size is expected to reach \$ 4071 million by 2032, rising at a market growth of 7.3% CAGR during the forecast period (2026-2032).

Fluorinated electronic specialty gases used in chip manufacturing refer to high-purity fluorinated gas materials used in processes such as semiconductor wafer manufacturing, advanced packaging, power devices, MEMS, and display panels, mainly including CF_4 , C_2F_6 , C_3F_8 , C_4F_6 , C_4F_8 , CHF_3 , CH_2F_2 , NF_3 , SF_6 , WF_6 , BF_3 , SiF_4 , F_2 Mixed gas, XeF_2 , etc. This type of gas has high reactivity, selective etching ability, good plasma compatibility, and precision process control ability. It is mainly used in dielectric layer etching, silicon etching, CVD chamber cleaning, tungsten deposition, ion implantation, surface treatment, MEMS release etching, and advanced packaging processing. Due to the extreme sensitivity of chip manufacturing to impurities, fluorinated electronic specialty gases are usually required to meet electronic grade, high-purity electronic grade, or ultra-high purity electronic grade standards, with a focus on controlling moisture, oxygen, nitrogen, metal impurities, particles, acidic impurities, and packaging container cleanliness. In 2025, global Fluorinated Electronic Specialty Gases for Chip Manufacturing production reached approximately 79,823 MT, with an average global market price of around US\$ 30.12 per kg.

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 studies the global Fluorinated Electronic Specialty Gases for Chip Manufacturing production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Fluorinated Electronic Specialty Gases for Chip Manufacturing and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Fluorinated Electronic Specialty Gases for Chip Manufacturing that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Fluorinated Electronic Specialty Gases for Chip Manufacturing total production and demand, 2021-2032, (Tons)

Global Fluorinated Electronic Specialty Gases for Chip Manufacturing total production value, 2021-2032, (USD Million)

Global Fluorinated Electronic Specialty Gases for Chip Manufacturing production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Fluorinated Electronic Specialty Gases for Chip Manufacturing consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Fluorinated Electronic Specialty Gases for Chip Manufacturing domestic production, consumption, key domestic manufacturers and share

Global Fluorinated Electronic Specialty Gases for Chip Manufacturing production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Fluorinated Electronic Specialty Gases for Chip Manufacturing production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Fluorinated Electronic Specialty Gases for Chip Manufacturing production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Fluorinated Electronic Specialty Gases for Chip Manufacturing market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Linde, Resonac Corporation, SOLVAY, Nippon Sanso, Air Liquide, Air Products, Kanto Denka Kogyo, Concorde Specialty Gases, Merck (Versum Materials), Foosung, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Fluorinated Electronic Specialty Gases for Chip Manufacturing market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Fluorinated Electronic Specialty Gases for Chip Manufacturing Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Fluorinated Electronic Specialty Gases for Chip Manufacturing Market,
Segmentation by Type:

F2

CF4, C2F6, C3F8, C4F8 C4F6

CHF3

NF3

COF2

SF6

WF6

Others

Global Fluorinated Electronic Specialty Gases for Chip Manufacturing Market,
Segmentation by Purity:

Purity 5N

Purity 6N

Other

Global Fluorinated Electronic Specialty Gases for Chip Manufacturing Market,
Segmentation by Sales Model:

Direct Selling

Distribution

Global Fluorinated Electronic Specialty Gases for Chip Manufacturing Market,
Segmentation by Application:

Chip Etching

Chip Cleaning

Other

Companies Profiled:

Linde

Resonac Corporation

SOLVAY

Nippon Sanso

Air Liquide

Air Products

Kanto Denka Kogyo

Concorde Specialty Gases

Merck (Versum Materials)

Foosung

Hyosung Chemical

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

Quanzhou Yuji

Key Questions Answered:

Global Fluorinated Electronic Specialty Gases for Chip Manufacturing Supply, Demand and Key Producers, 2026-20...

1. How big is the global Fluorinated Electronic Specialty Gases for Chip Manufacturing market?
2. What is the demand of the global Fluorinated Electronic Specialty Gases for Chip Manufacturing market?
3. What is the year over year growth of the global Fluorinated Electronic Specialty Gases for Chip Manufacturing market?
4. What is the production and production value of the global Fluorinated Electronic Specialty Gases for Chip Manufacturing market?
5. Who are the key producers in the global Fluorinated Electronic Specialty Gases for Chip Manufacturing market?
6. What are the growth factors driving the market demand?

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