

Global Etching Gas 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 Etching Gas market size was valued at USD 807.7 million in 2023 and is forecast to a readjusted size of USD 1405.1 million by 2030 with a CAGR of 8.2% during review period.

The etching process requires a chemical reaction between the electron gas and the etched material. The etching process requires a large amount of fluorocarbon gases, such as hexafluoroethane, carbon tetrafluoride, trifluoromethane, octafluorocyclobutane, octafluorobutane, etc. The etched gas undergoes a chemical reaction with the etched material, resulting in the elimination of the etched material. In the etching process of wafer manufacturing, especially in the dry etching process, in order to achieve directional etching, it is necessary to use electronic special gases to form plasma under ionization conditions. The plasma undergoes chemical or physical reactions with the etched material to remove a portion of the etched material. Different electron gases are also used for reactions in different etching targets.

The commonly used etching gases include fluorinated and chlorinated gases, as well as oxygen-containing gases and some rare gases.

The key manufacturers of Etching Gas include Linde, SK Materials, Kanto Denka Kogyo, PERIC Special Gases, Merck (Versum Materials), Showa Denko, etc. Linde is the world's largest player, with about 14% of the market.

Asia Pacific is the largest market, accounting for 74% of the global market. The Asia-Pacific region will maintain its position in the future.

In terms of product, it is divided into Fluorine Containing Gas, Chlorine Containing Gas,

Oxygen Containing Gas and others. Fluorine Containing Gas is the major product, accounting for about 55%.

Etching Gas are mainly used in industrial products such as integrated circuits, display panels, solar, LED, and so on. It is most widely used by the integrated circuits industry, which accounts for about 70% of the downstream market.

The Global Info Research report includes an overview of the development of the Etching Gas industry chain, the market status of Integrated Circuits (Fluorine Containing Gas, Chlorine Containing Gas), Display Panels (Fluorine Containing Gas, Chlorine Containing Gas), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Etching Gas.

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

Key Features:

The report presents comprehensive understanding of the Etching Gas 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 Etching Gas 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 (MT), revenue generated, and market share of different by Type (e.g., Fluorine Containing Gas, Chlorine Containing Gas).

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 Etching Gas market.

Regional Analysis: The report involves examining the Etching Gas 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 Etching Gas market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Etching Gas:

Company Analysis: Report covers individual Etching Gas 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 Etching Gas. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Integrated Circuits, Display Panels).

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

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

Etching Gas 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

Fluorine Containing Gas

Chlorine Containing Gas

Oxygen Containing Gas

Others

Market segment by Application

Integrated Circuits

Display Panels

Solar

LED

Major players covered

Linde

SK Materials

Kanto Denka Kogyo

PERIC Special Gases

Merck (Versum Materials)

Showa Denko

Nippon Sanso

Air Liquide

Haohua Chemical

Zibo Feiyuan Chemical

Kemeite (Yoke Technology)

Solvay

Huate Gas

Yongjing Technology

Air Products

Jinhong Gas

Concorde Specialty Gases

Linggas

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 Etching Gas product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Etching Gas 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 Etching Gas 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 Etching Gas.

Chapter 14 and 15, to describe Etching Gas sales channel, distributors, customers, research findings and conclusion.

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