

# Global High Purity Etching Gas Supply, Demand and Key Producers, 2023-2029

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## Abstracts

The global High Purity Etching Gas market size is expected to reach \$ 1405.1 million by 2029, rising at a market growth of 8.2% CAGR during the forecast period (2023-2029).

Global key players of High Purity Etching Gas include Linde and SK Materials, etc. The top two players hold a share over 24%.

Asia-Pacific is the largest market, has a share about 76%, followed by Europe and North America, with share 8% and 15%, separately.

In terms of product type, Fluorine Containing Gas is the largest segment, occupied for a share of 66%, and in terms of application, Integrated Circuits has a share about 70%.

Electronics manufacturing uses both wet and dry etching, but for different processes, much like using course- and fine-toothed saws to make different size and different quality cuts. In wet etching, aqueous solutions of acids or bases are used to quickly remove large amounts of material, or to completely remove a particular material. Dry etching uses plasma-activated etchant gases, usually containing halogen atoms, to selectively remove a portion of a material with greater precision and accuracy than wet etching can achieve. It is the dry etching process, often referred to as reactive ion etching or RIE.

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.

This report studies the global High Purity Etching Gas production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High Purity Etching Gas, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of High Purity Etching Gas that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High Purity Etching Gas total production and demand, 2018-2029, (Tons)

Global High Purity Etching Gas total production value, 2018-2029, (USD Million)

Global High Purity Etching Gas production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global High Purity Etching Gas consumption by region & country, CAGR, 2018-2029 & (Tons)

U.S. VS China: High Purity Etching Gas domestic production, consumption, key domestic manufacturers and share

Global High Purity Etching Gas production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Tons)

Global High Purity Etching Gas production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global High Purity Etching Gas production by Application production, value, CAGR, 2018-2029, (USD Million) & (Tons).

This reports profiles key players in the global High Purity Etching Gas 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, SK Materials, Kanto Denka Kogyo, ADEKA, PERIC Special Gases, Merck (Versum Materials), Showa Denko, Nippon Sanso and Hyosung, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World High Purity Etching Gas market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global High Purity Etching Gas Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## Global High Purity Etching Gas Market, Segmentation by Type

Fluorine Containing Gas

Chlorine Containing Gas

Oxygen Containing Gas

Others

## Global High Purity Etching Gas Market, Segmentation by Application

Integrated Circuits

Display Panels

Solar

LED

## Companies Profiled:

Linde

SK Materials

Kanto Denka Kogyo

ADEKA

PERIC Special Gases

Merck (Versum Materials)

Showa Denko

Nippon Sanso

Hyosung

Air Liquide

Haohua Chemical

Zibo Feiyuan Chemical

Kemeite (Yoke Technology)

Solvay

Huate Gas

Yongjing Technology

Air Products

Jinhong Gas

Concorde Specialty Gases

Linggas

## Key Questions Answered

1. How big is the global High Purity Etching Gas market?
2. What is the demand of the global High Purity Etching Gas market?
3. What is the year over year growth of the global High Purity Etching Gas market?
4. What is the production and production value of the global High Purity Etching Gas

market?

5. Who are the key producers in the global High Purity Etching Gas market?

6. What are the growth factors driving the market demand?

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