

Global Etching 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 Etching Gas market size will reach 1,077.49 Million USD in 2025 and is projected to reach 1,855.02 Million USD by 2032, with a CAGR of 8.07% (2025-2032). Notably, the China Etching 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

Etching gas, also known as etchant gas or reactive gas, refers to gases used in plasma etching processes to remove material from a substrate. These gases are typically introduced into a vacuum chamber where they are ionized into a plasma state by applying radiofrequency energy or other sources of excitation. The plasma contains highly reactive species such as ions, radicals, and electrons, which chemically react with the substrate surface, causing material removal through physical sputtering or chemical reactions. Common etching gases include fluorine-based gases like fluorine (F₂), sulfur hexafluoride (SF₆), and carbon tetrafluoride (CF₄), as well as chlorine-based gases like chlorine (Cl₂) and hydrogen chloride (HCl). The choice of etching gas depends on the type of material being etched and the desired etch characteristics, such as selectivity, etch rate, and sidewall profile. Etching gas plays a crucial role in various semiconductor manufacturing processes, microfabrication, and surface modification techniques.

The major global manufacturers of Etching Gas include 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, 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 Etching 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 Etching 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 Etching 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 Etching 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 Etching Gas Include:

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

Etching Gas Product Segment Include:

Fluorine Containing Gas

Chlorine Containing Gas

Oxygen Containing Gas

Others

Etching Gas Product Application Include:

Integrated Circuits

Display Panels

Solar

LED

Chapter Scope

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

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