

# Global Semiconductor Cleaning and 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 Semiconductor Cleaning and Etching Gas market size will reach 2,130.79 Million USD in 2025 and is projected to reach 3,567.44 Million USD by 2032, with a CAGR of 7.64% (2025-2032). Notably, the China Semiconductor Cleaning and 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

Semiconductor cleaning and etching gases are specialized chemical gases used in the fabrication of microelectronic devices to precisely remove contaminants, oxides, or specific material layers from silicon wafers. During cleaning, gases such as hydrogen fluoride (HF), ozone (O<sub>3</sub>), or ammonia (NH<sub>3</sub>) help eliminate organic residues and particles, ensuring a pristine surface for subsequent processing. In etching, reactive gases like chlorine (Cl<sub>2</sub>), fluorine-based compounds (e.g., CF<sub>4</sub>, SF<sub>6</sub>), or hydrogen bromide (HBr) selectively etch away targeted materials to define intricate circuit patterns. These gases play a critical role in achieving the high precision, cleanliness, and pattern fidelity required in modern semiconductor manufacturing, particularly in advanced nodes and 3D structures.

The major global manufacturers of Semiconductor Cleaning and Etching Gas include SK Materials, Kanto Denka Kogyo, Resonac, Linde Group, Peric, Hyosung, Taiyo Nippon Sanso, Merck KGaA, Mitsui Chemical, Central Glass, Haohua Chemical

Science & Technology, Shandong FeiYuan, Messer Group, Air Liquide, Huate Gas, 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 Semiconductor Cleaning and 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 Semiconductor Cleaning and 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 Semiconductor Cleaning and 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 Semiconductor Cleaning and 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 Semiconductor Cleaning and Etching Gas Include:

SK Materials

Kanto Denka Kogyo

Resonac

Linde Group

Peric

Hyosung

Taiyo Nippon Sanso

Merck KGaA

Mitsui Chemical

Central Glass

Haohua Chemical Science & Technology

Shandong FeiYuan

Messer Group

Air Liquide

Huate Gas

Semiconductor Cleaning and Etching Gas Product Segment Include:

Fluoride Gas

Chloride Gas

Others

Semiconductor Cleaning and Etching Gas Product Application Include:

Semiconductor Cleaning

Semiconductor Etching

## **Chapter Scope**

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