

# Global Tungsten Etching Gas Market Growth 2026-2032

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## Abstracts

The global Tungsten Etching Gas market size is predicted to grow from US\$ 768 million in 2025 to US\$ 1281 million in 2032; it is expected to grow at a CAGR of 7.6% from 2026 to 2032.

Tungsten etching gas refers to a high-purity electronic specialty gas used in the semiconductor manufacturing process for dry etching or related reaction treatment of tungsten metal or tungsten containing thin films. It is mainly used in the front-end process of integrated circuits and advanced packaging processes. This type of gas usually uses fluorine based gases as the core system, and converts tungsten materials into volatile compounds through plasma reactions to achieve selective removal. It has the characteristics of high reaction activity, controllable etching rate, and small impact on pattern size. Typical application scenarios include tungsten plug etching, contact hole and through-hole structure processing, as well as process steps that are compatible with tungsten deposition technology. The requirements for gas purity, impurity control, and supply stability are extremely high, usually requiring electronic grade or above standards. In 2025, global Tungsten Etching Gas production reached approximately 25,587 Tons, with an average global market price of around US\$ 30.69 per kg.

Tungsten etching gas belongs to a sub category of semiconductor electronic specialty gases with high technical barriers and long customer certification cycles. Its demand is highly tied to the level of integrated circuit processes and the pace of capacity expansion. With the continuous evolution of logic chip and storage chip processes, the application of tungsten in contact layers and interconnect structures continues to exist, creating a long-term rigid demand for tungsten etching processes with high selectivity and consistency. At the same time, the development of advanced packaging, three-

dimensional structures, and high-density interconnects has narrowed the etching window, further increasing the requirements for gas purity and process stability, and promoting the increase in the value of high-end tungsten etching gases. On the supply side, this market has long been dominated by a few international industrial gas and electronic specialty gas manufacturers, and new entrants need to invest significant resources in purification technology, packaging systems, and customer validation. Overall, although the market size of tungsten etching gas is smaller than that of general etching gas, it has the characteristics of strong technical stickiness, high replacement difficulty, and steady growth with advanced semiconductor processes. It belongs to the high-end material subdivision field with structurally stable growth.

LP Information, Inc. (LPI) ' newest research report, the “Tungsten Etching Gas Industry Forecast” looks at past sales and reviews total world Tungsten Etching Gas sales in 2025, providing a comprehensive analysis by region and market sector of projected Tungsten Etching Gas sales for 2026 through 2032. With Tungsten Etching Gas sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Tungsten Etching Gas industry.

This Insight Report provides a comprehensive analysis of the global Tungsten Etching Gas landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Tungsten Etching Gas portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Tungsten Etching Gas market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Tungsten Etching Gas and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Tungsten Etching Gas.

This report presents a comprehensive overview, market shares, and growth opportunities of Tungsten Etching Gas market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Sulfur Hexafluoride

Nitrogen Trifluoride

Carbon Tetrafluoride

Hexafluoroethane

Other

#### Segmentation by Purity:

Purity 5N

Purity 6N

Purity 7N

Other

#### Segmentation by Component:

Single Gas

Mixed Gas

#### Segmentation by Application:

Integrated Circuits

Display Panels

Solar

LED

This report also splits the market by region:

### Americas

United States

Canada

Mexico

Brazil

### APAC

China

Japan

Korea

Southeast Asia

India

Australia

### Europe

Germany

France

UK

Italy

Russia

### Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Linde

SK Specialty

Kanto Denka Kogyo

PERIC Special Gases

Merck (Versum Materials)

Resonac

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

Wonik Materials

DIG AIRGAS

TEMC

#### Key Questions Addressed in this Report

What is the 10-year outlook for the global Tungsten Etching Gas market?

What factors are driving Tungsten Etching Gas market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Tungsten Etching Gas market opportunities vary by end market size?

How does Tungsten Etching Gas break out by Type, by Application?

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