

Global Tungsten Etching Gas Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Tungsten Etching Gas market size is expected to reach \$ 1314 million by 2032, rising at a market growth of 7.1% CAGR during the forecast period (2026-2032).

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.

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

This report is a detailed and comprehensive analysis of the world market for Tungsten Etching Gas and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Tungsten Etching Gas that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Tungsten Etching Gas total production and demand, 2021-2032, (Tons)

Global Tungsten Etching Gas total production value, 2021-2032, (USD Million)

Global Tungsten Etching Gas production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Tungsten Etching Gas consumption by region & country, CAGR, 2021-2032 & (Tons)

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

Global Tungsten Etching Gas production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Tungsten Etching Gas production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Tungsten Etching Gas production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Tungsten 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 Specialty, Kanto Denka Kogyo, PERIC Special Gases, Merck (Versum Materials), Resonac, Nippon Sanso, Hyosung, Air Liquide, Haohua Chemical, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Tungsten 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\$/Kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Tungsten Etching Gas Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Tungsten Etching Gas Market, Segmentation by Type:

Sulfur Hexafluoride

Nitrogen Trifluoride

Carbon Tetrafluoride

Hexafluoroethane

Other

Global Tungsten Etching Gas Market, Segmentation by Purity:

Purity 5N

Purity 6N

Purity 7N

Other

Global Tungsten Etching Gas Market, Segmentation by Component:

Single Gas

Mixed Gas

Global Tungsten Etching Gas Market, Segmentation by Application:

Integrated Circuits

Display Panels

Solar

LED

Companies Profiled:

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 Answered:

1. How big is the global Tungsten Etching Gas market?
2. What is the demand of the global Tungsten Etching Gas market?
3. What is the year over year growth of the global Tungsten Etching Gas market?
4. What is the production and production value of the global Tungsten Etching Gas market?
5. Who are the key producers in the global Tungsten Etching Gas market?
6. What are the growth factors driving the market demand?

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