

Hexafluoroethane Global Market Insights 2025, Analysis and Forecast to 2030, by Manufacturers, Regions, Technology, Application

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Abstracts

Hexafluoroethane Market Summary

Introduction

Hexafluoroethane (C2F6) is a fluorocarbon gas used in semiconductor etching and cleaning, valued for its high etching selectivity and stability. The industry is characterized by its focus on ultra-high-purity gases, environmental compliance, and compatibility with advanced semiconductor nodes. Key trends include low-GWP gas development, optimized gas delivery systems, and increased use in 3D NAND and EUV processes. The market is driven by semiconductor growth in AI, 5G, and IoT, with expansion in Asia Pacific, North America, and Europe.

Market Size and Growth Forecast

The global Hexafluoroethane market was valued at USD 310–520 million in 2024, with an estimated CAGR of 6.3%–8.3% from 2025 to 2030, driven by semiconductor fabrication demand.

Regional Analysis

Asia Pacific is projected to grow at a CAGR of 6.8%–8.8%, led by China, Taiwan, and South Korea, where foundries drive C2F6 demand.

North America is expected to achieve a CAGR of 6.0%–8.0%, with the U.S. supporting growth through chip production initiatives.



Europe is anticipated to grow at a CAGR of 5.8%–7.8%, with Germany and the Netherlands emphasizing etching applications.

Rest of the World, including Singapore and Japan, is expected to grow at a CAGR of 5.5%–7.5%, with trends toward cleaning processes.

Application Analysis

Semiconductor etching applications are estimated to grow at a CAGR of 6.5%–8.5%, driven by C2F6's use in plasma etching, with trends toward sub-3nm precision.

Semiconductor cleaning applications are projected to expand at a CAGR of 6.3%–8.3%, supported by chamber cleaning, with innovations in low-GWP gases.

Other applications, such as optics, are anticipated to grow at a CAGR of 5.8%–7.8%, driven by niche surface treatments.

Key Market Players

Kanto Denka Kogyo, headquartered in Tokyo, Japan, produces high-purity C2F6 for etching, known for advanced gas purification. Its R&D develops low-GWP alternatives, and its global supply supports Asian foundries.

Merck KGaA, based in Darmstadt, Germany, supplies C2F6 for cleaning processes, emphasizing high-purity delivery systems. Its innovation centers optimize gas performance, and its global network ensures reliability.

Jinhong, headquartered in Zhejiang, China, offers C2F6 for etching, focusing on costeffective solutions. Its manufacturing supports high-volume needs, and its R&D improves gas purity.

Peric, based in Henan, China, produces C2F6 for semiconductor processes, known for scalable production. Its technical services enhance process efficiency, and its regional focus supports Chinese foundries.

Fujian Deer Technology Corp, headquartered in Fujian, China, supplies C2F6 for etching, emphasizing reliable supply. Its 500-tonne capacity supports foundry demand, and its R&D drives purity advancements.



Guangdong Huate Gas, based in Guangdong, China, offers C2F6 for cleaning, with a 550-tonne capacity. Its technical teams ensure equipment compatibility, and its production aligns with environmental standards.

Porter's Five Forces Analysis

Threat of new entrants is low; high purity and regulatory barriers create challenges.

Threat of substitutes is moderate; alternative gases compete, but C2F6's selectivity maintains its edge.

Buyer power is moderate; foundries negotiate pricing, but high-purity C2F6 limits leverage.

Supplier power is moderate; fluorocarbon raw materials face supply constraints, increasing supplier influence.

Competitive rivalry is high; key players differentiate through purity, delivery systems, and environmental compliance.

Market Opportunities and Challenges

Opportunities

Growing semiconductor demand for AI and 5G drives C2F6 adoption.

Advances in low-GWP gases enhance market growth.

Government support for chip production offers expansion opportunities.

Challenges

Environmental regulations on fluorocarbons increase compliance costs.

Supply chain disruptions for raw materials hinder scalability.



Competition from alternative gases limits market share.

Growth Trend Analysis

The Hexafluoroethane market is growing steadily, driven by semiconductor demand. Fujian Deer Technology Corp has a 500-tonne C2F6 capacity, Guangdong Huate Gas has 550 tonnes, and Peric has 150 tonnes, indicating sufficient production for etching and cleaning applications. These capacities align with a projected CAGR of 6.3%–8.3% through 2030, reflecting the market's focus on advanced semiconductor manufacturing.



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