

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

https://marketpublishers.com/r/H972C7C0D087EN.html

Date: June 2025 Pages: 82 Price: US\$ 3,200.00 (Single User License) ID: H972C7C0D087EN

### **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.



### Contents

Table of Contents

#### **CHAPTER 1 EXECUTIVE SUMMARY**

#### **CHAPTER 2 ABBREVIATION AND ACRONYMS**

#### **CHAPTER 3 PREFACE**

3.1 Research Scope3.2 Research Sources3.2.1 Data Sources3.2.2 Assumptions3.3 Research Method

#### **CHAPTER 4 MARKET LANDSCAPE**

- 4.1 Market Overview
- 4.2 Classification/Types
- 4.3 Application/End Users

#### **CHAPTER 5 MARKET TREND ANALYSIS**

- 5.1 Introduction
- 5.2 Drivers
- 5.3 Restraints
- 5.4 Opportunities
- 5.5 Threats

#### **CHAPTER 6 INDUSTRY CHAIN ANALYSIS**

- 6.1 Upstream/Suppliers Analysis
- 6.2 Hexafluoroethane Analysis
  - 6.2.1 Technology Analysis
  - 6.2.2 Cost Analysis
  - 6.2.3 Market Channel Analysis
- 6.3 Downstream Buyers/End Users

Hexafluoroethane Global Market Insights 2025, Analysis and Forecast to 2030, by Manufacturers, Regions, Techno...



#### **CHAPTER 7 LATEST MARKET DYNAMICS**

- 7.1 Latest News
- 7.2 Merger and Acquisition
- 7.3 Planned/Future Project
- 7.4 Policy Dynamics

#### **CHAPTER 8 TRADING ANALYSIS**

- 8.1 Export of Hexafluoroethane by Region
- 8.2 Import of Hexafluoroethane by Region
- 8.3 Balance of Trade

# CHAPTER 9 HISTORICAL AND FORECAST HEXAFLUOROETHANE MARKET IN NORTH AMERICA (2020-2030)

- 9.1 Hexafluoroethane Market Size
- 9.2 Hexafluoroethane Demand by End Use
- 9.3 Competition by Players/Suppliers
- 9.4 Type Segmentation and Price
- 9.5 Key Countries Analysis
  - 9.5.1 United States
  - 9.5.2 Canada
  - 9.5.3 Mexico

# CHAPTER 10 HISTORICAL AND FORECAST HEXAFLUOROETHANE MARKET IN SOUTH AMERICA (2020-2030)

- 10.1 Hexafluoroethane Market Size
- 10.2 Hexafluoroethane Demand by End Use
- 10.3 Competition by Players/Suppliers
- 10.4 Type Segmentation and Price
- 10.5 Key Countries Analysis
  - 10.5.1 Brazil
  - 10.5.2 Argentina
  - 10.5.3 Chile
  - 10.5.4 Peru

CHAPTER 11 HISTORICAL AND FORECAST HEXAFLUOROETHANE MARKET IN



#### ASIA & PACIFIC (2020-2030)

- 11.1 Hexafluoroethane Market Size
- 11.2 Hexafluoroethane Demand by End Use
- 11.3 Competition by Players/Suppliers
- 11.4 Type Segmentation and Price
- 11.5 Key Countries Analysis
  - 11.5.1 China
  - 11.5.2 India
  - 11.5.3 Japan
  - 11.5.4 South Korea
  - 11.5.5 Southest Asia
  - 11.5.6 Australia

# CHAPTER 12 HISTORICAL AND FORECAST HEXAFLUOROETHANE MARKET IN EUROPE (2020-2030)

- 12.1 Hexafluoroethane Market Size
- 12.2 Hexafluoroethane Demand by End Use
- 12.3 Competition by Players/Suppliers
- 12.4 Type Segmentation and Price
- 12.5 Key Countries Analysis
  - 12.5.1 Germany
  - 12.5.2 France
  - 12.5.3 United Kingdom
  - 12.5.4 Italy
  - 12.5.5 Spain
  - 12.5.6 Belgium
  - 12.5.7 Netherlands
  - 12.5.8 Austria
  - 12.5.9 Poland
  - 12.5.10 Russia

### CHAPTER 13 HISTORICAL AND FORECAST HEXAFLUOROETHANE MARKET IN MEA (2020-2030)

- 13.1 Hexafluoroethane Market Size
- 13.2 Hexafluoroethane Demand by End Use
- 13.3 Competition by Players/Suppliers



- 13.4 Type Segmentation and Price
- 13.5 Key Countries Analysis
  - 13.5.1 Egypt
  - 13.5.2 Israel
  - 13.5.3 South Africa
- 13.5.4 Gulf Cooperation Council Countries
- 13.5.5 Turkey

# CHAPTER 14 SUMMARY FOR GLOBAL HEXAFLUOROETHANE MARKET (2020-2025)

- 14.1 Hexafluoroethane Market Size
- 14.2 Hexafluoroethane Demand by End Use
- 14.3 Competition by Players/Suppliers
- 14.4 Type Segmentation and Price

#### CHAPTER 15 GLOBAL HEXAFLUOROETHANE MARKET FORECAST (2025-2030)

- 15.1 Hexafluoroethane Market Size Forecast
- 15.2 Hexafluoroethane Demand Forecast
- 15.3 Competition by Players/Suppliers
- 15.4 Type Segmentation and Price Forecast

#### CHAPTER 16 ANALYSIS OF GLOBAL KEY VENDORS

- 16.1 Kanto Denka Kogyo
  - 16.1.1 Company Profile
  - 16.1.2 Main Business and Hexafluoroethane Information
  - 16.1.3 SWOT Analysis of Kanto Denka Kogyo
- 16.1.4 Kanto Denka Kogyo Hexafluoroethane Sales, Revenue, Price and Gross

Margin (2020-2025)

16.2 Merck KGaA

- 16.2.1 Company Profile
- 16.2.2 Main Business and Hexafluoroethane Information
- 16.2.3 SWOT Analysis of Merck KGaA

16.2.4 Merck KGaA Hexafluoroethane Sales, Revenue, Price and Gross Margin (2020-2025)

16.3 Jinhong

16.3.1 Company Profile



16.3.2 Main Business and Hexafluoroethane Information

16.3.3 SWOT Analysis of Jinhong

16.3.4 Jinhong Hexafluoroethane Sales, Revenue, Price and Gross Margin

(2020-2025)

16.4 Peric

- 16.4.1 Company Profile
- 16.4.2 Main Business and Hexafluoroethane Information
- 16.4.3 SWOT Analysis of Peric

16.4.4 Peric Hexafluoroethane Sales, Revenue, Price and Gross Margin (2020-2025)

16.5 Fujian Deer Technology Corp

16.5.1 Company Profile

16.5.2 Main Business and Hexafluoroethane Information

16.5.3 SWOT Analysis of Fujian Deer Technology Corp

16.5.4 Fujian Deer Technology Corp Hexafluoroethane Sales, Revenue, Price and Gross Margin (2020-2025)

Please ask for sample pages for full companies list



### **Tables & Figures**

#### **TABLES AND FIGURES**

Table Abbreviation and Acronyms List Table Research Scope of Hexafluoroethane Report Table Data Sources of Hexafluoroethane Report Table Major Assumptions of Hexafluoroethane Report Figure Market Size Estimated Method **Figure Major Forecasting Factors Figure Hexafluoroethane Picture** Table Hexafluoroethane Classification Table Hexafluoroethane Applications List Table Drivers of Hexafluoroethane Market Table Restraints of Hexafluoroethane Market Table Opportunities of Hexafluoroethane Market Table Threats of Hexafluoroethane Market Table Raw Materials Suppliers List Table Different Production Methods of Hexafluoroethane Table Cost Structure Analysis of Hexafluoroethane Table Key End Users List Table Latest News of Hexafluoroethane Market Table Merger and Acquisition List Table Planned/Future Project of Hexafluoroethane Market Table Policy of Hexafluoroethane Market Table 2020-2030 Regional Export of Hexafluoroethane Table 2020-2030 Regional Import of Hexafluoroethane Table 2020-2030 Regional Trade Balance Figure 2020-2030 Regional Trade Balance Table 2020-2030 North America Hexafluoroethane Market Size and Market Volume List Figure 2020-2030 North America Hexafluoroethane Market Size and CAGR Figure 2020-2030 North America Hexafluoroethane Market Volume and CAGR Table 2020-2030 North America Hexafluoroethane Demand List by Application Table 2020-2025 North America Hexafluoroethane Key Players Sales List Table 2020-2025 North America Hexafluoroethane Key Players Market Share List Table 2020-2030 North America Hexafluoroethane Demand List by Type Table 2020-2025 North America Hexafluoroethane Price List by Type Table 2020-2030 United States Hexafluoroethane Market Size and Market Volume List Table 2020-2030 United States Hexafluoroethane Import & Export List



Table 2020-2030 Canada Hexafluoroethane Market Size and Market Volume List Table 2020-2030 Canada Hexafluoroethane Import & Export List Table 2020-2030 Mexico Hexafluoroethane Market Size and Market Volume List Table 2020-2030 Mexico Hexafluoroethane Import & Export List Table 2020-2030 South America Hexafluoroethane Market Size and Market Volume List Figure 2020-2030 South America Hexafluoroethane Market Size and CAGR Figure 2020-2030 South America Hexafluoroethane Market Volume and CAGR Table 2020-2030 South America Hexafluoroethane Demand List by Application Table 2020-2025 South America Hexafluoroethane Key Players Sales List Table 2020-2025 South America Hexafluoroethane Key Players Market Share List Table 2020-2030 South America Hexafluoroethane Demand List by Type Table 2020-2025 South America Hexafluoroethane Price List by Type Table 2020-2030 Brazil Hexafluoroethane Market Size and Market Volume List Table 2020-2030 Brazil Hexafluoroethane Import & Export List Table 2020-2030 Argentina Hexafluoroethane Market Size and Market Volume List Table 2020-2030 Argentina Hexafluoroethane Import & Export List Table 2020-2030 Chile Hexafluoroethane Market Size and Market Volume List Table 2020-2030 Chile Hexafluoroethane Import & Export List Table 2020-2030 Peru Hexafluoroethane Market Size and Market Volume List Table 2020-2030 Peru Hexafluoroethane Import & Export List Table 2020-2030 Asia & Pacific Hexafluoroethane Market Size and Market Volume List Figure 2020-2030 Asia & Pacific Hexafluoroethane Market Size and CAGR Figure 2020-2030 Asia & Pacific Hexafluoroethane Market Volume and CAGR Table 2020-2030 Asia & Pacific Hexafluoroethane Demand List by Application Table 2020-2025 Asia & Pacific Hexafluoroethane Key Players Sales List Table 2020-2025 Asia & Pacific Hexafluoroethane Key Players Market Share List Table 2020-2030 Asia & Pacific Hexafluoroethane Demand List by Type Table 2020-2025 Asia & Pacific Hexafluoroethane Price List by Type Table 2020-2030 China Hexafluoroethane Market Size and Market Volume List Table 2020-2030 China Hexafluoroethane Import & Export List Table 2020-2030 India Hexafluoroethane Market Size and Market Volume List Table 2020-2030 India Hexafluoroethane Import & Export List Table 2020-2030 Japan Hexafluoroethane Market Size and Market Volume List Table 2020-2030 Japan Hexafluoroethane Import & Export List Table 2020-2030 South Korea Hexafluoroethane Market Size and Market Volume List Table 2020-2030 South Korea Hexafluoroethane Import & Export List Table 2020-2030 Southeast Asia Hexafluoroethane Market Size List Table 2020-2030 Southeast Asia Hexafluoroethane Market Volume List Table 2020-2030 Southeast Asia Hexafluoroethane Import List



Table 2020-2030 Southeast Asia Hexafluoroethane Export List Table 2020-2030 Australia Hexafluoroethane Market Size and Market Volume List Table 2020-2030 Australia Hexafluoroethane Import & Export List Table 2020-2030 Europe Hexafluoroethane Market Size and Market Volume List Figure 2020-2030 Europe Hexafluoroethane Market Size and CAGR Figure 2020-2030 Europe Hexafluoroethane Market Volume and CAGR Table 2020-2030 Europe Hexafluoroethane Demand List by Application Table 2020-2025 Europe Hexafluoroethane Key Players Sales List Table 2020-2025 Europe Hexafluoroethane Key Players Market Share List Table 2020-2030 Europe Hexafluoroethane Demand List by Type Table 2020-2025 Europe Hexafluoroethane Price List by Type Table 2020-2030 Germany Hexafluoroethane Market Size and Market Volume List Table 2020-2030 Germany Hexafluoroethane Import & Export List Table 2020-2030 France Hexafluoroethane Market Size and Market Volume List Table 2020-2030 France Hexafluoroethane Import & Export List Table 2020-2030 United Kingdom Hexafluoroethane Market Size and Market Volume List Table 2020-2030 United Kingdom Hexafluoroethane Import & Export List Table 2020-2030 Italy Hexafluoroethane Market Size and Market Volume List Table 2020-2030 Italy Hexafluoroethane Import & Export List Table 2020-2030 Spain Hexafluoroethane Market Size and Market Volume List Table 2020-2030 Spain Hexafluoroethane Import & Export List Table 2020-2030 Belgium Hexafluoroethane Market Size and Market Volume List Table 2020-2030 Belgium Hexafluoroethane Import & Export List Table 2020-2030 Netherlands Hexafluoroethane Market Size and Market Volume List Table 2020-2030 Netherlands Hexafluoroethane Import & Export List Table 2020-2030 Austria Hexafluoroethane Market Size and Market Volume List Table 2020-2030 Austria Hexafluoroethane Import & Export List Table 2020-2030 Poland Hexafluoroethane Market Size and Market Volume List Table 2020-2030 Poland Hexafluoroethane Import & Export List Table 2020-2030 Russia Hexafluoroethane Market Size and Market Volume List Table 2020-2030 Russia Hexafluoroethane Import & Export List Table 2020-2030 MEA Hexafluoroethane Market Size and Market Volume List Figure 2020-2030 MEA Hexafluoroethane Market Size and CAGR Figure 2020-2030 MEA Hexafluoroethane Market Volume and CAGR Table 2020-2030 MEA Hexafluoroethane Demand List by Application Table 2020-2025 MEA Hexafluoroethane Key Players Sales List Table 2020-2025 MEA Hexafluoroethane Key Players Market Share List Table 2020-2030 MEA Hexafluoroethane Demand List by Type



Table 2020-2025 MEA Hexafluoroethane Price List by Type Table 2020-2030 Egypt Hexafluoroethane Market Size and Market Volume List Table 2020-2030 Egypt Hexafluoroethane Import & Export List Table 2020-2030 Israel Hexafluoroethane Market Size and Market Volume List Table 2020-2030 Israel Hexafluoroethane Import & Export List Table 2020-2030 South Africa Hexafluoroethane Market Size and Market Volume List Table 2020-2030 South Africa Hexafluoroethane Import & Export List Table 2020-2030 Gulf Cooperation Council Countries Hexafluoroethane Market Size and Market Volume List Table 2020-2030 Gulf Cooperation Council Countries Hexafluoroethane Import & Export List Table 2020-2030 Turkey Hexafluoroethane Market Size and Market Volume List Table 2020-2030 Turkey Hexafluoroethane Import & Export List Table 2020-2025 Global Hexafluoroethane Market Size List by Region Table 2020-2025 Global Hexafluoroethane Market Size Share List by Region Table 2020-2025 Global Hexafluoroethane Market Volume List by Region Table 2020-2025 Global Hexafluoroethane Market Volume Share List by Region Table 2020-2025 Global Hexafluoroethane Demand List by Application Table 2020-2025 Global Hexafluoroethane Demand Market Share List by Application Table 2020-2025 Global Hexafluoroethane Capacity List Table 2020-2025 Global Hexafluoroethane Key Vendors Capacity Share List Table 2020-2025 Global Hexafluoroethane Key Vendors Production List Table 2020-2025 Global Hexafluoroethane Key Vendors Production Share List Figure 2020-2025 Global Hexafluoroethane Capacity Production and Growth Rate Table 2020-2025 Global Hexafluoroethane Key Vendors Production Value List Figure 2020-2025 Global Hexafluoroethane Production Value and Growth Rate Table 2020-2025 Global Hexafluoroethane Key Vendors Production Value Share List Table 2020-2025 Global Hexafluoroethane Demand List by Type Table 2020-2025 Global Hexafluoroethane Demand Market Share List by Type Table 2020-2025 Regional Hexafluoroethane Price List Table 2025-2030 Global Hexafluoroethane Market Size List by Region Table 2025-2030 Global Hexafluoroethane Market Size Share List by Region Table 2025-2030 Global Hexafluoroethane Market Volume List by Region Table 2025-2030 Global Hexafluoroethane Market Volume Share List by Region Table 2025-2030 Global Hexafluoroethane Demand List by Application Table 2025-2030 Global Hexafluoroethane Demand Market Share List by Application Table 2025-2030 Global Hexafluoroethane Capacity List Table 2025-2030 Global Hexafluoroethane Key Vendors Capacity Share List Table 2025-2030 Global Hexafluoroethane Key Vendors Production List



Table 2025-2030 Global Hexafluoroethane Key Vendors Production Share List Figure 2025-2030 Global Hexafluoroethane Capacity Production and Growth Rate Table 2025-2030 Global Hexafluoroethane Key Vendors Production Value List Figure 2025-2030 Global Hexafluoroethane Production Value and Growth Rate Table 2025-2030 Global Hexafluoroethane Key Vendors Production Value Share List Table 2025-2030 Global Hexafluoroethane Demand List by Type Table 2025-2030 Global Hexafluoroethane Demand Market Share List by Type Table 2025-2030 Hexafluoroethane Regional Price List Table Kanto Denka Kogyo Information Table SWOT Analysis of Kanto Denka Kogyo Table 2020-2025 Kanto Denka Kogyo Hexafluoroethane Product Capacity Production Price Cost Production Value Figure 2020-2025 Kanto Denka Kogyo Hexafluoroethane Capacity Production and Growth Rate Figure 2020-2025 Kanto Denka Kogyo Hexafluoroethane Market Share Table Merck KGaA Information Table SWOT Analysis of Merck KGaA Table 2020-2025 Merck KGaA Hexafluoroethane Product Capacity Production Price Cost Production Value Figure 2020-2025 Merck KGaA Hexafluoroethane Capacity Production and Growth Rate Figure 2020-2025 Merck KGaA Hexafluoroethane Market Share Table Jinhong Information Table SWOT Analysis of Jinhong Table 2020-2025 Jinhong Hexafluoroethane Product Capacity Production Price Cost **Production Value** Figure 2020-2025 Jinhong Hexafluoroethane Capacity Production and Growth Rate Figure 2020-2025 Jinhong Hexafluoroethane Market Share **Table Peric Information** Table SWOT Analysis of Peric Table 2020-2025 Peric Hexafluoroethane Product Capacity Production Price Cost **Production Value** Figure 2020-2025 Peric Hexafluoroethane Capacity Production and Growth Rate Figure 2020-2025 Peric Hexafluoroethane Market Share Table Fujian Deer Technology Corp Information Table SWOT Analysis of Fujian Deer Technology Corp Table 2020-2025 Fujian Deer Technology Corp Hexafluoroethane Product Capacity Production Price Cost Production Value

Figure 2020-2025 Fujian Deer Technology Corp Hexafluoroethane Capacity Production



and Growth Rate

Figure 2020-2025 Fujian Deer Technology Corp Hexafluoroethane Market Share Table Guangdong Huate Gas Information

Table SWOT Analysis of Guangdong Huate Gas

Table 2020-2025 Guangdong Huate Gas Hexafluoroethane Product Capacity

Production Price Cost Production Value

Figure 2020-2025 Guangdong Huate Gas Hexafluoroethane Capacity Production and Growth Rate

Figure 2020-2025 Guangdong Huate Gas Hexafluoroethane Market Share



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