

Global Phosphorus Pentafluoride Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Phosphorus Pentafluoride market size is expected to reach \$ 2833 million by 2032, rising at a market growth of 15.0% CAGR during the forecast period (2026-2032).

Phosphorus pentafluoride is an inorganic phosphorus fluoride composed of one phosphorus atom and five fluorine atoms, with a molecular weight of 125.97. At ambient conditions, it is a colorless, pungent, toxic and nonflammable compressed gas with strong Lewis acidity and fluorinating activity. PF₅ is extremely sensitive to moisture and rapidly hydrolyzes to form highly corrosive hydrogen fluoride and phosphorus oxyfluoride species. Its principal industrial use is the production of lithium hexafluorophosphate through reaction with lithium fluoride. It is also used to manufacture sodium hexafluorophosphate, other inorganic and organic hexafluorophosphate salts, and, in much smaller quantities, in semiconductor processing, specialty fluorination and polymerization catalysis. Owing to its hazardous properties, industrial PF₅ is normally produced, purified and consumed directly in closed, fluorine-resistant continuous systems. This report also covers players which produce PF₅ for self-use.

Key Findings

Phosphorus Pentafluoride demand is mainly driven by lithium hexafluorophosphate production

Industrial Grade represents the mainstream product category

High Purity Grade serves semiconductor manufacturing applications

Lithium hexafluorophosphate production dominates downstream demand

Phosphorus Pentafluoride requires specialized production systems

Market Trends

The Phosphorus Pentafluoride market is increasingly influenced by the development of lithium-ion battery industries, particularly the expansion of electric vehicles and energy storage systems. The growing demand for lithium hexafluorophosphate production continues to support market development. At the same time, semiconductor manufacturing is creating additional demand for high-purity Phosphorus Pentafluoride with stricter impurity control requirements. Due to the hazardous characteristics of Phosphorus Pentafluoride, manufacturers are continuously improving purification technologies, production integration, and safety management capabilities.

Market Dynamics

Drivers

The major growth driver of the Phosphorus Pentafluoride market is the increasing demand for lithium-ion batteries. The expansion of electric vehicles, energy storage systems, and related battery manufacturing capacity is supporting the growth of lithium hexafluorophosphate production, which represents the primary application area of Phosphorus Pentafluoride. In addition, semiconductor industry development is creating new opportunities for high-purity Phosphorus Pentafluoride applications.

Restraints

The Phosphorus Pentafluoride market faces limitations due to its hazardous chemical characteristics, including high toxicity, moisture sensitivity, and corrosive hydrolysis products. Production requires specialized fluorine-resistant equipment, closed production systems, and strict safety management, resulting in higher technical requirements and operational complexity.

Opportunities

The continued expansion of lithium-ion battery manufacturing, electric vehicles, and energy storage systems provides growth opportunities for Phosphorus Pentafluoride suppliers. Meanwhile, the development of advanced semiconductor manufacturing processes creates opportunities for high-purity Phosphorus Pentafluoride products with improved purity control and reliability.

Challenges

The Phosphorus Pentafluoride industry faces challenges related to production safety, environmental compliance, technical barriers, and supply chain management. Maintaining stable production, purification, storage, and transportation systems for toxic and moisture-sensitive gases remains a key challenge for industry participants.

Industry Chain Analysis

The Phosphorus Pentafluoride industry chain consists of upstream chemical raw materials, midstream production and purification, and downstream application sectors. Upstream suppliers provide essential chemical materials for production, while midstream manufacturers focus on synthesis, purification, storage, and supply under controlled conditions. Downstream applications mainly include lithium hexafluorophosphate production, semiconductor manufacturing, and other specialized uses.

Segment Insights

By Grade, the Phosphorus Pentafluoride market is divided into Industrial Grade and High Purity Grade. Industrial Grade is the dominant product category and is mainly used for lithium hexafluorophosphate production. High Purity Grade requires advanced purification technologies and stricter impurity control, mainly serving semiconductor manufacturing and other high-value applications.

Downstream Market Opportunities

Lithium hexafluorophosphate production represents the largest application area for

Phosphorus Pentafluoride, supported by the continued expansion of lithium-ion battery demand. Semiconductor manufacturing represents a specialized application field where high-purity Phosphorus Pentafluoride is used in processes requiring strict gas quality control. Other applications include specialized fluorination and related chemical processes.

Regional Insights

The Phosphorus Pentafluoride market is mainly supported by regions with strong lithium battery manufacturing capacity and semiconductor industries. Asia-Pacific represents a key market due to its established battery supply chain and expanding electronic manufacturing capabilities. Other regions are also developing market opportunities through energy transition and semiconductor industry growth.

Competitive Landscape Analysis

The global Phosphorus Pentafluoride market has a relatively concentrated competitive structure, with major participants including Guangzhou Tinci Materials, Do-Fluoride New Materials, Tianji New Energy Technology, Jiangxi Shilei Fluorine Materials, Yongtai Technology, Kanto Denka Kogyo, Shida Shinghwa, Foosung, Jiangsu Jiujiujiu Technology, Morita Chemical Industries, Fujian Deer Technology, and Shenzhen Sunxing. Chinese manufacturers have strengthened their market position through the expansion of lithium hexafluorophosphate production capacity and related fluorine chemical capabilities.

Report Scope

This report studies the global Phosphorus Pentafluoride production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Phosphorus Pentafluoride 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 Phosphorus Pentafluoride that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Phosphorus Pentafluoride total production and demand, 2021-2032, (Kilotons)

Global Phosphorus Pentafluoride total production value, 2021-2032, (USD Million)

Global Phosphorus Pentafluoride production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Phosphorus Pentafluoride consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Phosphorus Pentafluoride domestic production, consumption, key domestic manufacturers and share

Global Phosphorus Pentafluoride production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Phosphorus Pentafluoride production by Grade, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Phosphorus Pentafluoride production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Phosphorus Pentafluoride 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 Guangzhou Tinci Materials, Do-Fluoride New Materials, Tonze New Energy Technology, Jiangxi Shilei Fluorine Materials, Yongtai Technology, Kanto Denka Kogyo, Shida Shinghwa, Foosung, Jiangsu Jiujiujiu Technology, Morita Chemical Industries, 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 Phosphorus Pentafluoride market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/kg) by manufacturer, by Grade, 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 Phosphorus Pentafluoride Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Phosphorus Pentafluoride Market, Segmentation by Grade:

Industrial Grade

High Purity Grade

Global Phosphorus Pentafluoride Market, Segmentation by Production Route:

Phosphorus Pentachloride–Anhydrous Hydrogen Fluoride Route

Phosphorus Trichloride/Chlorine–Anhydrous Hydrogen Fluoride Route

Others

Global Phosphorus Pentafluoride Market, Segmentation by Supply Mode:

Industrial-Park or Inter-Plant Pipeline Transfer

Industrial Specialty Cylinder Supply

Others

Global Phosphorus Pentafluoride Market, Segmentation by Application:

Lithium Hexafluorophosphate Production

Semiconductor

Others

Companies Profiled:

Guangzhou Tinci Materials

Do-Fluoride New Materials

Tonze New Energy Technology

Jiangxi Shilei Fluorine Materials

Yongtai Technology

Kanto Denka Kogyo

Shida Shinghwa

Foosung

Jiangsu Jiujiujiu Technology

Morita Chemical Industries

Fujian Deer Technology

Shenzhen Sunxing

Key Questions Answered

1. How big is the global Phosphorus Pentafluoride market?
2. What is the demand of the global Phosphorus Pentafluoride market?
3. What is the year over year growth of the global Phosphorus Pentafluoride market?
4. What is the total value of the global Phosphorus Pentafluoride market?
5. Who are the Major Players in the global Phosphorus Pentafluoride market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Phosphorus Pentafluoride Introduction
- 1.2 World Phosphorus Pentafluoride Supply & Forecast
 - 1.2.1 World Phosphorus Pentafluoride Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Phosphorus Pentafluoride Production (2021-2032)
 - 1.2.3 World Phosphorus Pentafluoride Pricing Trends (2021-2032)
- 1.3 World Phosphorus Pentafluoride Production by Region (Based on Production Site)
 - 1.3.1 World Phosphorus Pentafluoride Production Value by Region (2021-2032)
 - 1.3.2 World Phosphorus Pentafluoride Production by Region (2021-2032)
 - 1.3.3 World Phosphorus Pentafluoride Average Price by Region (2021-2032)
 - 1.3.4 China Phosphorus Pentafluoride Production (2021-2032)
 - 1.3.5 Japan Phosphorus Pentafluoride Production (2021-2032)
 - 1.3.6 South Korea Phosphorus Pentafluoride Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Phosphorus Pentafluoride Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Phosphorus Pentafluoride Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Phosphorus Pentafluoride Demand (2021-2032)
- 2.2 World Phosphorus Pentafluoride Consumption by Region
 - 2.2.1 World Phosphorus Pentafluoride Consumption by Region (2021-2026)
 - 2.2.2 World Phosphorus Pentafluoride Consumption Forecast by Region (2027-2032)
- 2.3 United States Phosphorus Pentafluoride Consumption (2021-2032)
- 2.4 China Phosphorus Pentafluoride Consumption (2021-2032)
- 2.5 Europe Phosphorus Pentafluoride Consumption (2021-2032)
- 2.6 Japan Phosphorus Pentafluoride Consumption (2021-2032)
- 2.7 South Korea Phosphorus Pentafluoride Consumption (2021-2032)
- 2.8 ASEAN Phosphorus Pentafluoride Consumption (2021-2032)
- 2.9 India Phosphorus Pentafluoride Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Phosphorus Pentafluoride Production Value by Manufacturer (2021-2026)
- 3.2 World Phosphorus Pentafluoride Production by Manufacturer (2021-2026)

- 3.3 World Phosphorus Pentafluoride Average Price by Manufacturer (2021-2026)
- 3.4 Phosphorus Pentafluoride Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Phosphorus Pentafluoride Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Phosphorus Pentafluoride in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Phosphorus Pentafluoride in 2025
- 3.6 Phosphorus Pentafluoride Market: Overall Company Footprint Analysis
 - 3.6.1 Phosphorus Pentafluoride Market: Region Footprint
 - 3.6.2 Phosphorus Pentafluoride Market: Company Product Type Footprint
 - 3.6.3 Phosphorus Pentafluoride Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Phosphorus Pentafluoride Production Value Comparison
 - 4.1.1 United States VS China: Phosphorus Pentafluoride Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Phosphorus Pentafluoride Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Phosphorus Pentafluoride Production Comparison
 - 4.2.1 United States VS China: Phosphorus Pentafluoride Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Phosphorus Pentafluoride Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Phosphorus Pentafluoride Consumption Comparison
 - 4.3.1 United States VS China: Phosphorus Pentafluoride Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Phosphorus Pentafluoride Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Phosphorus Pentafluoride Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Phosphorus Pentafluoride Manufacturers, Headquarters and Production Site (States, Country)
 - 4.4.2 United States Based Manufacturers Phosphorus Pentafluoride Production Value

(2021-2026)

4.4.3 United States Based Manufacturers Phosphorus Pentafluoride Production

(2021-2026)

4.5 China Based Phosphorus Pentafluoride Manufacturers and Market Share

4.5.1 China Based Phosphorus Pentafluoride Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Phosphorus Pentafluoride Production Value (2021-2026)

4.5.3 China Based Manufacturers Phosphorus Pentafluoride Production (2021-2026)

4.6 Rest of World Based Phosphorus Pentafluoride Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Phosphorus Pentafluoride Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Phosphorus Pentafluoride Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Phosphorus Pentafluoride Production (2021-2026)

5 MARKET ANALYSIS BY GRADE

5.1 World Phosphorus Pentafluoride Market Size Overview by Grade: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Grade

5.2.1 Industrial Grade

5.2.2 High Purity Grade

5.3 Market Segment by Grade

5.3.1 World Phosphorus Pentafluoride Production by Grade (2021-2032)

5.3.2 World Phosphorus Pentafluoride Production Value by Grade (2021-2032)

5.3.3 World Phosphorus Pentafluoride Average Price by Grade (2021-2032)

6 MARKET ANALYSIS BY PRODUCTION ROUTE

6.1 World Phosphorus Pentafluoride Market Size Overview by Production Route: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Production Route

6.2.1 Phosphorus Pentachloride–Anhydrous Hydrogen Fluoride Route

6.2.2 Phosphorus Trichloride/Chlorine–Anhydrous Hydrogen Fluoride Route

6.2.3 Others

6.3 Market Segment by Production Route

- 6.3.1 World Phosphorus Pentafluoride Production by Production Route (2021-2032)
- 6.3.2 World Phosphorus Pentafluoride Production Value by Production Route (2021-2032)
- 6.3.3 World Phosphorus Pentafluoride Average Price by Production Route (2021-2032)

7 MARKET ANALYSIS BY SUPPLY MODE

- 7.1 World Phosphorus Pentafluoride Market Size Overview by Supply Mode: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Supply Mode
 - 7.2.1 Industrial-Park or Inter-Plant Pipeline Transfer
 - 7.2.2 Industrial Specialty Cylinder Supply
 - 7.2.3 Others
- 7.3 Market Segment by Supply Mode
 - 7.3.1 World Phosphorus Pentafluoride Production by Supply Mode (2021-2032)
 - 7.3.2 World Phosphorus Pentafluoride Production Value by Supply Mode (2021-2032)
 - 7.3.3 World Phosphorus Pentafluoride Average Price by Supply Mode (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

- 8.1 World Phosphorus Pentafluoride Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application
 - 8.2.1 Lithium Hexafluorophosphate Production
 - 8.2.2 Semiconductor
 - 8.2.3 Others
- 8.3 Market Segment by Application
 - 8.3.1 World Phosphorus Pentafluoride Production by Application (2021-2032)
 - 8.3.2 World Phosphorus Pentafluoride Production Value by Application (2021-2032)
 - 8.3.3 World Phosphorus Pentafluoride Average Price by Application (2021-2032)

9 COMPANY PROFILES

- 9.1 Guangzhou Tinci Materials
 - 9.1.1 Guangzhou Tinci Materials Details
 - 9.1.2 Guangzhou Tinci Materials Major Business
 - 9.1.3 Guangzhou Tinci Materials Phosphorus Pentafluoride Product and Services
 - 9.1.4 Guangzhou Tinci Materials Phosphorus Pentafluoride Production, Price, Value,

Gross Margin and Market Share (2021-2026)

9.1.5 Guangzhou Tinci Materials Recent Developments/Updates

9.1.6 Guangzhou Tinci Materials Competitive Strengths & Weaknesses

9.2 Do-Fluoride New Materials

9.2.1 Do-Fluoride New Materials Details

9.2.2 Do-Fluoride New Materials Major Business

9.2.3 Do-Fluoride New Materials Phosphorus Pentafluoride Product and Services

9.2.4 Do-Fluoride New Materials Phosphorus Pentafluoride Production, Price, Value,

Gross Margin and Market Share (2021-2026)

9.2.5 Do-Fluoride New Materials Recent Developments/Updates

9.2.6 Do-Fluoride New Materials Competitive Strengths & Weaknesses

9.3 Tonze New Energy Technology

9.3.1 Tonze New Energy Technology Details

9.3.2 Tonze New Energy Technology Major Business

9.3.3 Tonze New Energy Technology Phosphorus Pentafluoride Product and Services

9.3.4 Tonze New Energy Technology Phosphorus Pentafluoride Production, Price,

Value, Gross Margin and Market Share (2021-2026)

9.3.5 Tonze New Energy Technology Recent Developments/Updates

9.3.6 Tonze New Energy Technology Competitive Strengths & Weaknesses

9.4 Jiangxi Shilei Fluorine Materials

9.4.1 Jiangxi Shilei Fluorine Materials Details

9.4.2 Jiangxi Shilei Fluorine Materials Major Business

9.4.3 Jiangxi Shilei Fluorine Materials Phosphorus Pentafluoride Product and Services

9.4.4 Jiangxi Shilei Fluorine Materials Phosphorus Pentafluoride Production, Price,

Value, Gross Margin and Market Share (2021-2026)

9.4.5 Jiangxi Shilei Fluorine Materials Recent Developments/Updates

9.4.6 Jiangxi Shilei Fluorine Materials Competitive Strengths & Weaknesses

9.5 Yongtai Technology

9.5.1 Yongtai Technology Details

9.5.2 Yongtai Technology Major Business

9.5.3 Yongtai Technology Phosphorus Pentafluoride Product and Services

9.5.4 Yongtai Technology Phosphorus Pentafluoride Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.5.5 Yongtai Technology Recent Developments/Updates

9.5.6 Yongtai Technology Competitive Strengths & Weaknesses

9.6 Kanto Denka Kogyo

9.6.1 Kanto Denka Kogyo Details

9.6.2 Kanto Denka Kogyo Major Business

9.6.3 Kanto Denka Kogyo Phosphorus Pentafluoride Product and Services

9.6.4 Kanto Denka Kogyo Phosphorus Pentafluoride Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Kanto Denka Kogyo Recent Developments/Updates

9.6.6 Kanto Denka Kogyo Competitive Strengths & Weaknesses

9.7 Shida Shinghwa

9.7.1 Shida Shinghwa Details

9.7.2 Shida Shinghwa Major Business

9.7.3 Shida Shinghwa Phosphorus Pentafluoride Product and Services

9.7.4 Shida Shinghwa Phosphorus Pentafluoride Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Shida Shinghwa Recent Developments/Updates

9.7.6 Shida Shinghwa Competitive Strengths & Weaknesses

9.8 Foosung

9.8.1 Foosung Details

9.8.2 Foosung Major Business

9.8.3 Foosung Phosphorus Pentafluoride Product and Services

9.8.4 Foosung Phosphorus Pentafluoride Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Foosung Recent Developments/Updates

9.8.6 Foosung Competitive Strengths & Weaknesses

9.9 Jiangsu Jiujiujiu Technology

9.9.1 Jiangsu Jiujiujiu Technology Details

9.9.2 Jiangsu Jiujiujiu Technology Major Business

9.9.3 Jiangsu Jiujiujiu Technology Phosphorus Pentafluoride Product and Services

9.9.4 Jiangsu Jiujiujiu Technology Phosphorus Pentafluoride Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Jiangsu Jiujiujiu Technology Recent Developments/Updates

9.9.6 Jiangsu Jiujiujiu Technology Competitive Strengths & Weaknesses

9.10 Morita Chemical Industries

9.10.1 Morita Chemical Industries Details

9.10.2 Morita Chemical Industries Major Business

9.10.3 Morita Chemical Industries Phosphorus Pentafluoride Product and Services

9.10.4 Morita Chemical Industries Phosphorus Pentafluoride Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Morita Chemical Industries Recent Developments/Updates

9.10.6 Morita Chemical Industries Competitive Strengths & Weaknesses

9.11 Fujian Deer Technology

9.11.1 Fujian Deer Technology Details

9.11.2 Fujian Deer Technology Major Business

- 9.11.3 Fujian Deer Technology Phosphorus Pentafluoride Product and Services
- 9.11.4 Fujian Deer Technology Phosphorus Pentafluoride Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 Fujian Deer Technology Recent Developments/Updates
- 9.11.6 Fujian Deer Technology Competitive Strengths & Weaknesses
- 9.12 Shenzhen Sunxing
 - 9.12.1 Shenzhen Sunxing Details
 - 9.12.2 Shenzhen Sunxing Major Business
 - 9.12.3 Shenzhen Sunxing Phosphorus Pentafluoride Product and Services
 - 9.12.4 Shenzhen Sunxing Phosphorus Pentafluoride Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Shenzhen Sunxing Recent Developments/Updates
 - 9.12.6 Shenzhen Sunxing Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Phosphorus Pentafluoride Industry Chain
- 10.2 Phosphorus Pentafluoride Upstream Analysis
 - 10.2.1 Phosphorus Pentafluoride Core Raw Materials
 - 10.2.2 Main Manufacturers of Phosphorus Pentafluoride Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Phosphorus Pentafluoride Production Mode
- 10.6 Phosphorus Pentafluoride Procurement Model
- 10.7 Phosphorus Pentafluoride Industry Sales Model and Sales Channels
 - 10.7.1 Phosphorus Pentafluoride Sales Model
 - 10.7.2 Phosphorus Pentafluoride Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Phosphorus Pentafluoride Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Phosphorus Pentafluoride Production Value by Region (2021-2026) & (USD Million)

Table 3. World Phosphorus Pentafluoride Production Value by Region (2027-2032) & (USD Million)

Table 4. World Phosphorus Pentafluoride Production Value Market Share by Region (2021-2026)

Table 5. World Phosphorus Pentafluoride Production Value Market Share by Region (2027-2032)

Table 6. World Phosphorus Pentafluoride Production by Region (2021-2026) & (Kilotons)

Table 7. World Phosphorus Pentafluoride Production by Region (2027-2032) & (Kilotons)

Table 8. World Phosphorus Pentafluoride Production Market Share by Region (2021-2026)

Table 9. World Phosphorus Pentafluoride Production Market Share by Region (2027-2032)

Table 10. World Phosphorus Pentafluoride Average Price by Region (2021-2026) & (US\$/kg)

Table 11. World Phosphorus Pentafluoride Average Price by Region (2027-2032) & (US\$/kg)

Table 12. Phosphorus Pentafluoride Major Market Trends

Table 13. World Phosphorus Pentafluoride Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Kilotons)

Table 14. World Phosphorus Pentafluoride Consumption by Region (2021-2026) & (Kilotons)

Table 15. World Phosphorus Pentafluoride Consumption Forecast by Region (2027-2032) & (Kilotons)

Table 16. World Phosphorus Pentafluoride Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Phosphorus Pentafluoride Producers in 2025

Table 18. World Phosphorus Pentafluoride Production by Manufacturer (2021-2026) & (Kilotons)

Table 19. Production Market Share of Key Phosphorus Pentafluoride Producers in 2025

Table 20. World Phosphorus Pentafluoride Average Price by Manufacturer (2021-2026) & (US\$/kg)

Table 21. Global Phosphorus Pentafluoride Company Evaluation Quadrant

Table 22. World Phosphorus Pentafluoride Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Phosphorus Pentafluoride Production Site of Key Manufacturer

Table 24. Phosphorus Pentafluoride Market: Company Product Type Footprint

Table 25. Phosphorus Pentafluoride Market: Company Product Application Footprint

Table 26. Phosphorus Pentafluoride Competitive Factors

Table 27. Phosphorus Pentafluoride New Entrant and Capacity Expansion Plans

Table 28. Phosphorus Pentafluoride Mergers & Acquisitions Activity

Table 29. United States VS China Phosphorus Pentafluoride Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Phosphorus Pentafluoride Production Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 31. United States VS China Phosphorus Pentafluoride Consumption Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 32. United States Based Phosphorus Pentafluoride Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Phosphorus Pentafluoride Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Phosphorus Pentafluoride Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Phosphorus Pentafluoride Production (2021-2026) & (Kilotons)

Table 36. United States Based Manufacturers Phosphorus Pentafluoride Production Market Share (2021-2026)

Table 37. China Based Phosphorus Pentafluoride Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Phosphorus Pentafluoride Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Phosphorus Pentafluoride Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Phosphorus Pentafluoride Production, (2021-2026) & (Kilotons)

Table 41. China Based Manufacturers Phosphorus Pentafluoride Production Market Share (2021-2026)

Table 42. Rest of World Based Phosphorus Pentafluoride Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Phosphorus Pentafluoride Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Phosphorus Pentafluoride Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Phosphorus Pentafluoride Production, (2021-2026) & (Kilotons)

Table 46. Rest of World Based Manufacturers Phosphorus Pentafluoride Production Market Share (2021-2026)

Table 47. World Phosphorus Pentafluoride Production Value by Grade, (USD Million), 2021 & 2025 & 2032

Table 48. World Phosphorus Pentafluoride Production by Grade (2021-2026) & (Kilotons)

Table 49. World Phosphorus Pentafluoride Production by Grade (2027-2032) & (Kilotons)

Table 50. World Phosphorus Pentafluoride Production Value by Grade (2021-2026) & (USD Million)

Table 51. World Phosphorus Pentafluoride Production Value by Grade (2027-2032) & (USD Million)

Table 52. World Phosphorus Pentafluoride Average Price by Grade (2021-2026) & (US\$/kg)

Table 53. World Phosphorus Pentafluoride Average Price by Grade (2027-2032) & (US\$/kg)

Table 54. World Phosphorus Pentafluoride Production Value by Production Route, (USD Million), 2021 & 2025 & 2032

Table 55. World Phosphorus Pentafluoride Production by Production Route (2021-2026) & (Kilotons)

Table 56. World Phosphorus Pentafluoride Production by Production Route (2027-2032) & (Kilotons)

Table 57. World Phosphorus Pentafluoride Production Value by Production Route (2021-2026) & (USD Million)

Table 58. World Phosphorus Pentafluoride Production Value by Production Route (2027-2032) & (USD Million)

Table 59. World Phosphorus Pentafluoride Average Price by Production Route (2021-2026) & (US\$/kg)

Table 60. World Phosphorus Pentafluoride Average Price by Production Route (2027-2032) & (US\$/kg)

Table 61. World Phosphorus Pentafluoride Production Value by Supply Mode, (USD

Million), 2021 & 2025 & 2032

Table 62. World Phosphorus Pentafluoride Production by Supply Mode (2021-2026) & (Kilotons)

Table 63. World Phosphorus Pentafluoride Production by Supply Mode (2027-2032) & (Kilotons)

Table 64. World Phosphorus Pentafluoride Production Value by Supply Mode (2021-2026) & (USD Million)

Table 65. World Phosphorus Pentafluoride Production Value by Supply Mode (2027-2032) & (USD Million)

Table 66. World Phosphorus Pentafluoride Average Price by Supply Mode (2021-2026) & (US\$/kg)

Table 67. World Phosphorus Pentafluoride Average Price by Supply Mode (2027-2032) & (US\$/kg)

Table 68. World Phosphorus Pentafluoride Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Phosphorus Pentafluoride Production by Application (2021-2026) & (Kilotons)

Table 70. World Phosphorus Pentafluoride Production by Application (2027-2032) & (Kilotons)

Table 71. World Phosphorus Pentafluoride Production Value by Application (2021-2026) & (USD Million)

Table 72. World Phosphorus Pentafluoride Production Value by Application (2027-2032) & (USD Million)

Table 73. World Phosphorus Pentafluoride Average Price by Application (2021-2026) & (US\$/kg)

Table 74. World Phosphorus Pentafluoride Average Price by Application (2027-2032) & (US\$/kg)

Table 75. Guangzhou Tinci Materials Basic Information, Manufacturing Base and Competitors

Table 76. Guangzhou Tinci Materials Major Business

Table 77. Guangzhou Tinci Materials Phosphorus Pentafluoride Product and Services

Table 78. Guangzhou Tinci Materials Phosphorus Pentafluoride Production (Kilotons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Guangzhou Tinci Materials Recent Developments/Updates

Table 80. Guangzhou Tinci Materials Competitive Strengths & Weaknesses

Table 81. Do-Fluoride New Materials Basic Information, Manufacturing Base and Competitors

Table 82. Do-Fluoride New Materials Major Business

Table 83. Do-Fluoride New Materials Phosphorus Pentafluoride Product and Services

Table 84. Do-Fluoride New Materials Phosphorus Pentafluoride Production (Kilotons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Do-Fluoride New Materials Recent Developments/Updates

Table 86. Do-Fluoride New Materials Competitive Strengths & Weaknesses

Table 87. Tonze New Energy Technology Basic Information, Manufacturing Base and Competitors

Table 88. Tonze New Energy Technology Major Business

Table 89. Tonze New Energy Technology Phosphorus Pentafluoride Product and Services

Table 90. Tonze New Energy Technology Phosphorus Pentafluoride Production (Kilotons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Tonze New Energy Technology Recent Developments/Updates

Table 92. Tonze New Energy Technology Competitive Strengths & Weaknesses

Table 93. Jiangxi Shilei Fluorine Materials Basic Information, Manufacturing Base and Competitors

Table 94. Jiangxi Shilei Fluorine Materials Major Business

Table 95. Jiangxi Shilei Fluorine Materials Phosphorus Pentafluoride Product and Services

Table 96. Jiangxi Shilei Fluorine Materials Phosphorus Pentafluoride Production (Kilotons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Jiangxi Shilei Fluorine Materials Recent Developments/Updates

Table 98. Jiangxi Shilei Fluorine Materials Competitive Strengths & Weaknesses

Table 99. Yongtai Technology Basic Information, Manufacturing Base and Competitors

Table 100. Yongtai Technology Major Business

Table 101. Yongtai Technology Phosphorus Pentafluoride Product and Services

Table 102. Yongtai Technology Phosphorus Pentafluoride Production (Kilotons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Yongtai Technology Recent Developments/Updates

Table 104. Yongtai Technology Competitive Strengths & Weaknesses

Table 105. Kanto Denka Kogyo Basic Information, Manufacturing Base and Competitors

Table 106. Kanto Denka Kogyo Major Business

Table 107. Kanto Denka Kogyo Phosphorus Pentafluoride Product and Services

Table 108. Kanto Denka Kogyo Phosphorus Pentafluoride Production (Kilotons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Kanto Denka Kogyo Recent Developments/Updates

Table 110. Kanto Denka Kogyo Competitive Strengths & Weaknesses
Table 111. Shida Shinghua Basic Information, Manufacturing Base and Competitors
Table 112. Shida Shinghua Major Business
Table 113. Shida Shinghua Phosphorus Pentafluoride Product and Services
Table 114. Shida Shinghua Phosphorus Pentafluoride Production (Kilotons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Shida Shinghua Recent Developments/Updates
Table 116. Shida Shinghua Competitive Strengths & Weaknesses
Table 117. Foosung Basic Information, Manufacturing Base and Competitors
Table 118. Foosung Major Business
Table 119. Foosung Phosphorus Pentafluoride Product and Services
Table 120. Foosung Phosphorus Pentafluoride Production (Kilotons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Foosung Recent Developments/Updates
Table 122. Foosung Competitive Strengths & Weaknesses
Table 123. Jiangsu Jiujiju Technology Basic Information, Manufacturing Base and Competitors
Table 124. Jiangsu Jiujiju Technology Major Business
Table 125. Jiangsu Jiujiju Technology Phosphorus Pentafluoride Product and Services
Table 126. Jiangsu Jiujiju Technology Phosphorus Pentafluoride Production (Kilotons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. Jiangsu Jiujiju Technology Recent Developments/Updates
Table 128. Jiangsu Jiujiju Technology Competitive Strengths & Weaknesses
Table 129. Morita Chemical Industries Basic Information, Manufacturing Base and Competitors
Table 130. Morita Chemical Industries Major Business
Table 131. Morita Chemical Industries Phosphorus Pentafluoride Product and Services
Table 132. Morita Chemical Industries Phosphorus Pentafluoride Production (Kilotons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. Morita Chemical Industries Recent Developments/Updates
Table 134. Morita Chemical Industries Competitive Strengths & Weaknesses
Table 135. Fujian Deer Technology Basic Information, Manufacturing Base and Competitors
Table 136. Fujian Deer Technology Major Business
Table 137. Fujian Deer Technology Phosphorus Pentafluoride Product and Services
Table 138. Fujian Deer Technology Phosphorus Pentafluoride Production (Kilotons),

Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Fujian Deer Technology Recent Developments/Updates

Table 140. Fujian Deer Technology Competitive Strengths & Weaknesses

Table 141. Shenzhen Sunxing Basic Information, Manufacturing Base and Competitors

Table 142. Shenzhen Sunxing Major Business

Table 143. Shenzhen Sunxing Phosphorus Pentafluoride Product and Services

Table 144. Shenzhen Sunxing Phosphorus Pentafluoride Production (Kilotons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Shenzhen Sunxing Recent Developments/Updates

Table 146. Shenzhen Sunxing Competitive Strengths & Weaknesses

Table 147. Global Key Players of Phosphorus Pentafluoride Upstream (Raw Materials)

Table 148. Global Phosphorus Pentafluoride Typical Customers

Table 149. Phosphorus Pentafluoride Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Phosphorus Pentafluoride Picture

Figure 2. World Phosphorus Pentafluoride Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Phosphorus Pentafluoride Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Phosphorus Pentafluoride Production (2021-2032) & (Kilotons)

Figure 5. World Phosphorus Pentafluoride Average Price (2021-2032) & (US\$/kg)

Figure 6. World Phosphorus Pentafluoride Production Value Market Share by Region (2021-2032)

Figure 7. World Phosphorus Pentafluoride Production Market Share by Region (2021-2032)

Figure 8. China Phosphorus Pentafluoride Production (2021-2032) & (Kilotons)

Figure 9. Japan Phosphorus Pentafluoride Production (2021-2032) & (Kilotons)

Figure 10. South Korea Phosphorus Pentafluoride Production (2021-2032) & (Kilotons)

Figure 11. Phosphorus Pentafluoride Market Drivers

Figure 12. Factors Affecting Demand

Figure 13. World Phosphorus Pentafluoride Consumption (2021-2032) & (Kilotons)

Figure 14. World Phosphorus Pentafluoride Consumption Market Share by Region (2021-2032)

Figure 15. United States Phosphorus Pentafluoride Consumption (2021-2032) & (Kilotons)

Figure 16. China Phosphorus Pentafluoride Consumption (2021-2032) & (Kilotons)

Figure 17. Europe Phosphorus Pentafluoride Consumption (2021-2032) & (Kilotons)

Figure 18. Japan Phosphorus Pentafluoride Consumption (2021-2032) & (Kilotons)

Figure 19. South Korea Phosphorus Pentafluoride Consumption (2021-2032) & (Kilotons)

Figure 20. ASEAN Phosphorus Pentafluoride Consumption (2021-2032) & (Kilotons)

Figure 21. India Phosphorus Pentafluoride Consumption (2021-2032) & (Kilotons)

Figure 22. Producer Shipments of Phosphorus Pentafluoride by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 23. Global Four-firm Concentration Ratios (CR4) for Phosphorus Pentafluoride Markets in 2025

Figure 24. Global Four-firm Concentration Ratios (CR8) for Phosphorus Pentafluoride Markets in 2025

Figure 25. United States VS China: Phosphorus Pentafluoride Production Value Market

Share Comparison (2021 & 2025 & 2032)

Figure 26. United States VS China: Phosphorus Pentafluoride Production Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Phosphorus Pentafluoride Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States Based Manufacturers Phosphorus Pentafluoride Production Market Share 2025

Figure 29. China Based Manufacturers Phosphorus Pentafluoride Production Market Share 2025

Figure 30. Rest of World Based Manufacturers Phosphorus Pentafluoride Production Market Share 2025

Figure 31. World Phosphorus Pentafluoride Production Value by Grade, (USD Million), 2021 & 2025 & 2032

Figure 32. World Phosphorus Pentafluoride Production Value Market Share by Grade in 2025

Figure 33. Industrial Grade

Figure 34. High Purity Grade

Figure 35. World Phosphorus Pentafluoride Production Market Share by Grade (2021-2032)

Figure 36. World Phosphorus Pentafluoride Production Value Market Share by Grade (2021-2032)

Figure 37. World Phosphorus Pentafluoride Average Price by Grade (2021-2032) & (US\$/kg)

Figure 38. World Phosphorus Pentafluoride Production Value by Production Route, (USD Million), 2021 & 2025 & 2032

Figure 39. World Phosphorus Pentafluoride Production Value Market Share by Production Route in 2025

Figure 40. Phosphorus Pentachloride–Anhydrous Hydrogen Fluoride Route

Figure 41. Phosphorus Trichloride/Chlorine–Anhydrous Hydrogen Fluoride Route

Figure 42. Others

Figure 43. World Phosphorus Pentafluoride Production Market Share by Production Route (2021-2032)

Figure 44. World Phosphorus Pentafluoride Production Value Market Share by Production Route (2021-2032)

Figure 45. World Phosphorus Pentafluoride Average Price by Production Route (2021-2032) & (US\$/kg)

Figure 46. World Phosphorus Pentafluoride Production Value by Supply Mode, (USD Million), 2021 & 2025 & 2032

Figure 47. World Phosphorus Pentafluoride Production Value Market Share by Supply

Mode in 2025

Figure 48. Industrial-Park or Inter-Plant Pipeline Transfer

Figure 49. Industrial Specialty Cylinder Supply

Figure 50. Others

Figure 51. World Phosphorus Pentafluoride Production Market Share by Supply Mode (2021-2032)

Figure 52. World Phosphorus Pentafluoride Production Value Market Share by Supply Mode (2021-2032)

Figure 53. World Phosphorus Pentafluoride Average Price by Supply Mode (2021-2032) & (US\$/kg)

Figure 54. World Phosphorus Pentafluoride Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 55. World Phosphorus Pentafluoride Production Value Market Share by Application in 2025

Figure 56. Lithium Hexafluorophosphate Production

Figure 57. Semiconductor

Figure 58. Others

Figure 59. World Phosphorus Pentafluoride Production Market Share by Application (2021-2032)

Figure 60. World Phosphorus Pentafluoride Production Value Market Share by Application (2021-2032)

Figure 61. World Phosphorus Pentafluoride Average Price by Application (2021-2032) & (US\$/kg)

Figure 62. Phosphorus Pentafluoride Industry Chain

Figure 63. Phosphorus Pentafluoride Procurement Model

Figure 64. Phosphorus Pentafluoride Sales Model

Figure 65. Phosphorus Pentafluoride Sales Channels, Direct Sales, and Distribution

Figure 66. Methodology

Figure 67. Research Process and Data Source

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