

Global Phosphorus Pentafluoride Market Growth 2026-2032

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Abstracts

The global Phosphorus Pentafluoride market size is predicted to grow from US\$ 812 million in 2025 to US\$ 2828 million in 2032; it is expected to grow at a CAGR of 16.0% from 2026 to 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

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

This Insight Report provides a comprehensive analysis of the global Phosphorus Pentafluoride 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 Phosphorus Pentafluoride portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Phosphorus Pentafluoride market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Phosphorus Pentafluoride and breaks down the forecast by Grade, 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 Phosphorus Pentafluoride.

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

Market Segmentation

Segmentation by Grade:

Industrial Grade

High Purity Grade

Segmentation by Production Route:

Phosphorus Pentachloride–Anhydrous Hydrogen Fluoride Route

Phosphorus Trichloride/Chlorine–Anhydrous Hydrogen Fluoride Route

Others

Segmentation by Supply Mode:

Industrial-Park or Inter-Plant Pipeline Transfer

Industrial Specialty Cylinder Supply

Others

Segmentation by Application:

Lithium Hexafluorophosphate Production

Semiconductor

Others

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.

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 Addressed in this Report

What is the 10-year outlook for the global Phosphorus Pentafluoride market?

What factors are driving Phosphorus Pentafluoride market growth, globally and by region?

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

How do Phosphorus Pentafluoride market opportunities vary by end market size?

How does Phosphorus Pentafluoride break out by Grade, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Phosphorus Pentafluoride Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Phosphorus Pentafluoride by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Phosphorus Pentafluoride by Country/Region, 2021, 2025 & 2032
- 2.2 Phosphorus Pentafluoride Segment by Grade
 - 2.2.1 Industrial Grade
 - 2.2.2 High Purity Grade
 - 2.2.3 Phosphorus Pentafluoride Sales by Grade
 - 2.2.3.1 Global Phosphorus Pentafluoride Sales Market Share by Grade (2021-2026)
 - 2.2.3.2 Global Phosphorus Pentafluoride Revenue and Market Share by Grade (2021-2026)
 - 2.2.3.3 Global Phosphorus Pentafluoride Sale Price by Grade (2021-2026)
- 2.3 Phosphorus Pentafluoride Segment by Production Route
 - 2.3.1 Phosphorus Pentachloride–Anhydrous Hydrogen Fluoride Route
 - 2.3.2 Phosphorus Trichloride/Chlorine–Anhydrous Hydrogen Fluoride Route
 - 2.3.3 Others
 - 2.3.4 Phosphorus Pentafluoride Sales by Production Route
 - 2.3.4.1 Global Phosphorus Pentafluoride Sales Market Share by Production Route (2021-2026)
 - 2.3.4.2 Global Phosphorus Pentafluoride Revenue and Market Share by Production Route (2021-2026)
 - 2.3.4.3 Global Phosphorus Pentafluoride Sale Price by Production Route

(2021-2026)

2.4 Phosphorus Pentafluoride Segment by Supply Mode

2.4.1 Industrial-Park or Inter-Plant Pipeline Transfer

2.4.2 Industrial Specialty Cylinder Supply

2.4.3 Others

2.4.4 Phosphorus Pentafluoride Sales by Supply Mode

2.4.4.1 Global Phosphorus Pentafluoride Sales Market Share by Supply Mode

(2021-2026)

2.4.4.2 Global Phosphorus Pentafluoride Revenue and Market Share by Supply Mode (2021-2026)

2.4.4.3 Global Phosphorus Pentafluoride Sale Price by Supply Mode (2021-2026)

2.5 Phosphorus Pentafluoride Segment by Application

2.5.1 Lithium Hexafluorophosphate Production

2.5.2 Semiconductor

2.5.3 Others

2.5.4 Phosphorus Pentafluoride Sales by Application

2.5.4.1 Global Phosphorus Pentafluoride Sale Market Share by Application

(2021-2026)

2.5.4.2 Global Phosphorus Pentafluoride Revenue and Market Share by Application (2021-2026)

2.5.4.3 Global Phosphorus Pentafluoride Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Phosphorus Pentafluoride Breakdown Data by Company

3.1.1 Global Phosphorus Pentafluoride Annual Sales by Company (2021-2026)

3.1.2 Global Phosphorus Pentafluoride Sales Market Share by Company (2021-2026)

3.2 Global Phosphorus Pentafluoride Annual Revenue by Company (2021-2026)

3.2.1 Global Phosphorus Pentafluoride Revenue by Company (2021-2026)

3.2.2 Global Phosphorus Pentafluoride Revenue Market Share by Company

(2021-2026)

3.3 Global Phosphorus Pentafluoride Sale Price by Company

3.4 Key Manufacturers Phosphorus Pentafluoride Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Phosphorus Pentafluoride Product Location Distribution

3.4.2 Players Phosphorus Pentafluoride Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR PHOSPHORUS PENTAFLUORIDE BY GEOGRAPHIC REGION

4.1 World Historic Phosphorus Pentafluoride Market Size by Geographic Region (2021-2026)

4.1.1 Global Phosphorus Pentafluoride Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Phosphorus Pentafluoride Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Phosphorus Pentafluoride Market Size by Country/Region (2021-2026)

4.2.1 Global Phosphorus Pentafluoride Annual Sales by Country/Region (2021-2026)

4.2.2 Global Phosphorus Pentafluoride Annual Revenue by Country/Region (2021-2026)

4.3 Americas Phosphorus Pentafluoride Sales Growth

4.4 APAC Phosphorus Pentafluoride Sales Growth

4.5 Europe Phosphorus Pentafluoride Sales Growth

4.6 Middle East & Africa Phosphorus Pentafluoride Sales Growth

5 AMERICAS

5.1 Americas Phosphorus Pentafluoride Sales by Country

5.1.1 Americas Phosphorus Pentafluoride Sales by Country (2021-2026)

5.1.2 Americas Phosphorus Pentafluoride Revenue by Country (2021-2026)

5.2 Americas Phosphorus Pentafluoride Sales by Grade (2021-2026)

5.3 Americas Phosphorus Pentafluoride Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Phosphorus Pentafluoride Sales by Region

6.1.1 APAC Phosphorus Pentafluoride Sales by Region (2021-2026)

6.1.2 APAC Phosphorus Pentafluoride Revenue by Region (2021-2026)

6.2 APAC Phosphorus Pentafluoride Sales by Grade (2021-2026)

6.3 APAC Phosphorus Pentafluoride Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Phosphorus Pentafluoride by Country

7.1.1 Europe Phosphorus Pentafluoride Sales by Country (2021-2026)

7.1.2 Europe Phosphorus Pentafluoride Revenue by Country (2021-2026)

7.2 Europe Phosphorus Pentafluoride Sales by Grade (2021-2026)

7.3 Europe Phosphorus Pentafluoride Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Phosphorus Pentafluoride by Country

8.1.1 Middle East & Africa Phosphorus Pentafluoride Sales by Country (2021-2026)

8.1.2 Middle East & Africa Phosphorus Pentafluoride Revenue by Country (2021-2026)

8.2 Middle East & Africa Phosphorus Pentafluoride Sales by Grade (2021-2026)

8.3 Middle East & Africa Phosphorus Pentafluoride Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Phosphorus Pentafluoride

10.3 Manufacturing Process Analysis of Phosphorus Pentafluoride

10.4 Industry Chain Structure of Phosphorus Pentafluoride

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Phosphorus Pentafluoride Distributors

11.3 Phosphorus Pentafluoride Customer

12 WORLD FORECAST REVIEW FOR PHOSPHORUS PENTAFLUORIDE BY GEOGRAPHIC REGION

12.1 Global Phosphorus Pentafluoride Market Size Forecast by Region

12.1.1 Global Phosphorus Pentafluoride Forecast by Region (2027-2032)

12.1.2 Global Phosphorus Pentafluoride Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Phosphorus Pentafluoride Forecast by Grade (2027-2032)

12.7 Global Phosphorus Pentafluoride Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Guangzhou Tinci Materials

13.1.1 Guangzhou Tinci Materials Company Information

13.1.2 Guangzhou Tinci Materials Phosphorus Pentafluoride Product Portfolios and Specifications

13.1.3 Guangzhou Tinci Materials Phosphorus Pentafluoride Sales, Revenue, Price

and Gross Margin (2021-2026)

13.1.4 Guangzhou Tinci Materials Main Business Overview

13.1.5 Guangzhou Tinci Materials Latest Developments

13.2 Do-Fluoride New Materials

13.2.1 Do-Fluoride New Materials Company Information

13.2.2 Do-Fluoride New Materials Phosphorus Pentafluoride Product Portfolios and Specifications

13.2.3 Do-Fluoride New Materials Phosphorus Pentafluoride Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Do-Fluoride New Materials Main Business Overview

13.2.5 Do-Fluoride New Materials Latest Developments

13.3 Tonze New Energy Technology

13.3.1 Tonze New Energy Technology Company Information

13.3.2 Tonze New Energy Technology Phosphorus Pentafluoride Product Portfolios and Specifications

13.3.3 Tonze New Energy Technology Phosphorus Pentafluoride Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Tonze New Energy Technology Main Business Overview

13.3.5 Tonze New Energy Technology Latest Developments

13.4 Jiangxi Shilei Fluorine Materials

13.4.1 Jiangxi Shilei Fluorine Materials Company Information

13.4.2 Jiangxi Shilei Fluorine Materials Phosphorus Pentafluoride Product Portfolios and Specifications

13.4.3 Jiangxi Shilei Fluorine Materials Phosphorus Pentafluoride Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Jiangxi Shilei Fluorine Materials Main Business Overview

13.4.5 Jiangxi Shilei Fluorine Materials Latest Developments

13.5 Yongtai Technology

13.5.1 Yongtai Technology Company Information

13.5.2 Yongtai Technology Phosphorus Pentafluoride Product Portfolios and Specifications

13.5.3 Yongtai Technology Phosphorus Pentafluoride Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Yongtai Technology Main Business Overview

13.5.5 Yongtai Technology Latest Developments

13.6 Kanto Denka Kogyo

13.6.1 Kanto Denka Kogyo Company Information

13.6.2 Kanto Denka Kogyo Phosphorus Pentafluoride Product Portfolios and Specifications

13.6.3 Kanto Denka Kogyo Phosphorus Pentafluoride Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Kanto Denka Kogyo Main Business Overview

13.6.5 Kanto Denka Kogyo Latest Developments

13.7 Shida Shinghwa

13.7.1 Shida Shinghwa Company Information

13.7.2 Shida Shinghwa Phosphorus Pentafluoride Product Portfolios and Specifications

13.7.3 Shida Shinghwa Phosphorus Pentafluoride Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Shida Shinghwa Main Business Overview

13.7.5 Shida Shinghwa Latest Developments

13.8 Foosung

13.8.1 Foosung Company Information

13.8.2 Foosung Phosphorus Pentafluoride Product Portfolios and Specifications

13.8.3 Foosung Phosphorus Pentafluoride Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Foosung Main Business Overview

13.8.5 Foosung Latest Developments

13.9 Jiangsu Jiujiujiu Technology

13.9.1 Jiangsu Jiujiujiu Technology Company Information

13.9.2 Jiangsu Jiujiujiu Technology Phosphorus Pentafluoride Product Portfolios and Specifications

13.9.3 Jiangsu Jiujiujiu Technology Phosphorus Pentafluoride Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Jiangsu Jiujiujiu Technology Main Business Overview

13.9.5 Jiangsu Jiujiujiu Technology Latest Developments

13.10 Morita Chemical Industries

13.10.1 Morita Chemical Industries Company Information

13.10.2 Morita Chemical Industries Phosphorus Pentafluoride Product Portfolios and Specifications

13.10.3 Morita Chemical Industries Phosphorus Pentafluoride Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Morita Chemical Industries Main Business Overview

13.10.5 Morita Chemical Industries Latest Developments

13.11 Fujian Deer Technology

13.11.1 Fujian Deer Technology Company Information

13.11.2 Fujian Deer Technology Phosphorus Pentafluoride Product Portfolios and Specifications

13.11.3 Fujian Deer Technology Phosphorus Pentafluoride Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Fujian Deer Technology Main Business Overview

13.11.5 Fujian Deer Technology Latest Developments

13.12 Shenzhen Sunxing

13.12.1 Shenzhen Sunxing Company Information

13.12.2 Shenzhen Sunxing Phosphorus Pentafluoride Product Portfolios and Specifications

13.12.3 Shenzhen Sunxing Phosphorus Pentafluoride Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Shenzhen Sunxing Main Business Overview

13.12.5 Shenzhen Sunxing Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Phosphorus Pentafluoride Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Phosphorus Pentafluoride Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Industrial Grade

Table 4. Major Players of High Purity Grade

Table 5. Global Phosphorus Pentafluoride Sales by Grade (2021-2026) & (Kilotons)

Table 6. Global Phosphorus Pentafluoride Sales Market Share by Grade (2021-2026)

Table 7. Global Phosphorus Pentafluoride Revenue by Grade (2021-2026) & (\$ million)

Table 8. Global Phosphorus Pentafluoride Revenue Market Share by Grade (2021-2026)

Table 9. Global Phosphorus Pentafluoride Sale Price by Grade (2021-2026) & (US\$/kg)

Table 10. Major Players of Phosphorus Pentachloride–Anhydrous Hydrogen Fluoride Route

Table 11. Major Players of Phosphorus Trichloride/Chlorine–Anhydrous Hydrogen Fluoride Route

Table 12. Major Players of Others

Table 13. Global Phosphorus Pentafluoride Sales by Production Route (2021-2026) & (Kilotons)

Table 14. Global Phosphorus Pentafluoride Sales Market Share by Production Route (2021-2026)

Table 15. Global Phosphorus Pentafluoride Revenue by Production Route (2021-2026) & (\$ million)

Table 16. Global Phosphorus Pentafluoride Revenue Market Share by Production Route (2021-2026)

Table 17. Global Phosphorus Pentafluoride Sale Price by Production Route (2021-2026) & (US\$/kg)

Table 18. Major Players of Industrial-Park or Inter-Plant Pipeline Transfer

Table 19. Major Players of Industrial Specialty Cylinder Supply

Table 20. Major Players of Others

Table 21. Global Phosphorus Pentafluoride Sales by Supply Mode (2021-2026) & (Kilotons)

Table 22. Global Phosphorus Pentafluoride Sales Market Share by Supply Mode (2021-2026)

Table 23. Global Phosphorus Pentafluoride Revenue by Supply Mode (2021-2026) & (\$

million)

Table 24. Global Phosphorus Pentafluoride Revenue Market Share by Supply Mode (2021-2026)

Table 25. Global Phosphorus Pentafluoride Sale Price by Supply Mode (2021-2026) & (US\$/kg)

Table 26. Global Phosphorus Pentafluoride Sale by Application (2021-2026) & (Kilotons)

Table 27. Global Phosphorus Pentafluoride Sale Market Share by Application (2021-2026)

Table 28. Global Phosphorus Pentafluoride Revenue by Application (2021-2026) & (\$ million)

Table 29. Global Phosphorus Pentafluoride Revenue Market Share by Application (2021-2026)

Table 30. Global Phosphorus Pentafluoride Sale Price by Application (2021-2026) & (US\$/kg)

Table 31. Global Phosphorus Pentafluoride Sales by Company (2021-2026) & (Kilotons)

Table 32. Global Phosphorus Pentafluoride Sales Market Share by Company (2021-2026)

Table 33. Global Phosphorus Pentafluoride Revenue by Company (2021-2026) & (\$ millions)

Table 34. Global Phosphorus Pentafluoride Revenue Market Share by Company (2021-2026)

Table 35. Global Phosphorus Pentafluoride Sale Price by Company (2021-2026) & (US\$/kg)

Table 36. Key Manufacturers Phosphorus Pentafluoride Producing Area Distribution and Sales Area

Table 37. Players Phosphorus Pentafluoride Products Offered

Table 38. Phosphorus Pentafluoride Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 39. New Products and Potential Entrants

Table 40. Market M&A Activity & Strategy

Table 41. Global Phosphorus Pentafluoride Sales by Geographic Region (2021-2026) & (Kilotons)

Table 42. Global Phosphorus Pentafluoride Sales Market Share Geographic Region (2021-2026)

Table 43. Global Phosphorus Pentafluoride Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 44. Global Phosphorus Pentafluoride Revenue Market Share by Geographic Region (2021-2026)

Table 45. Global Phosphorus Pentafluoride Sales by Country/Region (2021-2026) & (Kilotons)

Table 46. Global Phosphorus Pentafluoride Sales Market Share by Country/Region (2021-2026)

Table 47. Global Phosphorus Pentafluoride Revenue by Country/Region (2021-2026) & (\$ millions)

Table 48. Global Phosphorus Pentafluoride Revenue Market Share by Country/Region (2021-2026)

Table 49. Americas Phosphorus Pentafluoride Sales by Country (2021-2026) & (Kilotons)

Table 50. Americas Phosphorus Pentafluoride Sales Market Share by Country (2021-2026)

Table 51. Americas Phosphorus Pentafluoride Revenue by Country (2021-2026) & (\$ millions)

Table 52. Americas Phosphorus Pentafluoride Sales by Grade (2021-2026) & (Kilotons)

Table 53. Americas Phosphorus Pentafluoride Sales by Application (2021-2026) & (Kilotons)

Table 54. APAC Phosphorus Pentafluoride Sales by Region (2021-2026) & (Kilotons)

Table 55. APAC Phosphorus Pentafluoride Sales Market Share by Region (2021-2026)

Table 56. APAC Phosphorus Pentafluoride Revenue by Region (2021-2026) & (\$ millions)

Table 57. APAC Phosphorus Pentafluoride Sales by Grade (2021-2026) & (Kilotons)

Table 58. APAC Phosphorus Pentafluoride Sales by Application (2021-2026) & (Kilotons)

Table 59. Europe Phosphorus Pentafluoride Sales by Country (2021-2026) & (Kilotons)

Table 60. Europe Phosphorus Pentafluoride Revenue by Country (2021-2026) & (\$ millions)

Table 61. Europe Phosphorus Pentafluoride Sales by Grade (2021-2026) & (Kilotons)

Table 62. Europe Phosphorus Pentafluoride Sales by Application (2021-2026) & (Kilotons)

Table 63. Middle East & Africa Phosphorus Pentafluoride Sales by Country (2021-2026) & (Kilotons)

Table 64. Middle East & Africa Phosphorus Pentafluoride Revenue Market Share by Country (2021-2026)

Table 65. Middle East & Africa Phosphorus Pentafluoride Sales by Grade (2021-2026) & (Kilotons)

Table 66. Middle East & Africa Phosphorus Pentafluoride Sales by Application (2021-2026) & (Kilotons)

Table 67. Key Market Drivers & Growth Opportunities of Phosphorus Pentafluoride

Table 68. Key Market Challenges & Risks of Phosphorus Pentafluoride

Table 69. Key Industry Trends of Phosphorus Pentafluoride

Table 70. Phosphorus Pentafluoride Raw Material

Table 71. Key Suppliers of Raw Materials

Table 72. Phosphorus Pentafluoride Distributors List

Table 73. Phosphorus Pentafluoride Customer List

Table 74. Global Phosphorus Pentafluoride Sales Forecast by Region (2027-2032) & (Kilotons)

Table 75. Global Phosphorus Pentafluoride Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 76. Americas Phosphorus Pentafluoride Sales Forecast by Country (2027-2032) & (Kilotons)

Table 77. Americas Phosphorus Pentafluoride Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 78. APAC Phosphorus Pentafluoride Sales Forecast by Region (2027-2032) & (Kilotons)

Table 79. APAC Phosphorus Pentafluoride Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 80. Europe Phosphorus Pentafluoride Sales Forecast by Country (2027-2032) & (Kilotons)

Table 81. Europe Phosphorus Pentafluoride Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 82. Middle East & Africa Phosphorus Pentafluoride Sales Forecast by Country (2027-2032) & (Kilotons)

Table 83. Middle East & Africa Phosphorus Pentafluoride Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 84. Global Phosphorus Pentafluoride Sales Forecast by Grade (2027-2032) & (Kilotons)

Table 85. Global Phosphorus Pentafluoride Revenue Forecast by Grade (2027-2032) & (\$ millions)

Table 86. Global Phosphorus Pentafluoride Sales Forecast by Application (2027-2032) & (Kilotons)

Table 87. Global Phosphorus Pentafluoride Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 88. Guangzhou Tinci Materials Basic Information, Phosphorus Pentafluoride Manufacturing Base, Sales Area and Its Competitors

Table 89. Guangzhou Tinci Materials Phosphorus Pentafluoride Product Portfolios and Specifications

Table 90. Guangzhou Tinci Materials Phosphorus Pentafluoride Sales (Kilotons),

Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 91. Guangzhou Tinci Materials Main Business

Table 92. Guangzhou Tinci Materials Latest Developments

Table 93. Do-Fluoride New Materials Basic Information, Phosphorus Pentafluoride Manufacturing Base, Sales Area and Its Competitors

Table 94. Do-Fluoride New Materials Phosphorus Pentafluoride Product Portfolios and Specifications

Table 95. Do-Fluoride New Materials Phosphorus Pentafluoride Sales (Kilotons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 96. Do-Fluoride New Materials Main Business

Table 97. Do-Fluoride New Materials Latest Developments

Table 98. Tonze New Energy Technology Basic Information, Phosphorus Pentafluoride Manufacturing Base, Sales Area and Its Competitors

Table 99. Tonze New Energy Technology Phosphorus Pentafluoride Product Portfolios and Specifications

Table 100. Tonze New Energy Technology Phosphorus Pentafluoride Sales (Kilotons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 101. Tonze New Energy Technology Main Business

Table 102. Tonze New Energy Technology Latest Developments

Table 103. Jiangxi Shilei Fluorine Materials Basic Information, Phosphorus Pentafluoride Manufacturing Base, Sales Area and Its Competitors

Table 104. Jiangxi Shilei Fluorine Materials Phosphorus Pentafluoride Product Portfolios and Specifications

Table 105. Jiangxi Shilei Fluorine Materials Phosphorus Pentafluoride Sales (Kilotons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 106. Jiangxi Shilei Fluorine Materials Main Business

Table 107. Jiangxi Shilei Fluorine Materials Latest Developments

Table 108. Yongtai Technology Basic Information, Phosphorus Pentafluoride Manufacturing Base, Sales Area and Its Competitors

Table 109. Yongtai Technology Phosphorus Pentafluoride Product Portfolios and Specifications

Table 110. Yongtai Technology Phosphorus Pentafluoride Sales (Kilotons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 111. Yongtai Technology Main Business

Table 112. Yongtai Technology Latest Developments

Table 113. Kanto Denka Kogyo Basic Information, Phosphorus Pentafluoride Manufacturing Base, Sales Area and Its Competitors

Table 114. Kanto Denka Kogyo Phosphorus Pentafluoride Product Portfolios and Specifications

Table 115. Kanto Denka Kogyo Phosphorus Pentafluoride Sales (Kilotons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 116. Kanto Denka Kogyo Main Business

Table 117. Kanto Denka Kogyo Latest Developments

Table 118. Shida Shinghwa Basic Information, Phosphorus Pentafluoride Manufacturing Base, Sales Area and Its Competitors

Table 119. Shida Shinghwa Phosphorus Pentafluoride Product Portfolios and Specifications

Table 120. Shida Shinghwa Phosphorus Pentafluoride Sales (Kilotons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 121. Shida Shinghwa Main Business

Table 122. Shida Shinghwa Latest Developments

Table 123. Foosung Basic Information, Phosphorus Pentafluoride Manufacturing Base, Sales Area and Its Competitors

Table 124. Foosung Phosphorus Pentafluoride Product Portfolios and Specifications

Table 125. Foosung Phosphorus Pentafluoride Sales (Kilotons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 126. Foosung Main Business

Table 127. Foosung Latest Developments

Table 128. Jiangsu Jiujijiu Technology Basic Information, Phosphorus Pentafluoride Manufacturing Base, Sales Area and Its Competitors

Table 129. Jiangsu Jiujijiu Technology Phosphorus Pentafluoride Product Portfolios and Specifications

Table 130. Jiangsu Jiujijiu Technology Phosphorus Pentafluoride Sales (Kilotons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 131. Jiangsu Jiujijiu Technology Main Business

Table 132. Jiangsu Jiujijiu Technology Latest Developments

Table 133. Morita Chemical Industries Basic Information, Phosphorus Pentafluoride Manufacturing Base, Sales Area and Its Competitors

Table 134. Morita Chemical Industries Phosphorus Pentafluoride Product Portfolios and Specifications

Table 135. Morita Chemical Industries Phosphorus Pentafluoride Sales (Kilotons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 136. Morita Chemical Industries Main Business

Table 137. Morita Chemical Industries Latest Developments

Table 138. Fujian Deer Technology Basic Information, Phosphorus Pentafluoride Manufacturing Base, Sales Area and Its Competitors

Table 139. Fujian Deer Technology Phosphorus Pentafluoride Product Portfolios and Specifications

Table 140. Fujian Deer Technology Phosphorus Pentafluoride Sales (Kilotons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 141. Fujian Deer Technology Main Business

Table 142. Fujian Deer Technology Latest Developments

Table 143. Shenzhen Sunxing Basic Information, Phosphorus Pentafluoride Manufacturing Base, Sales Area and Its Competitors

Table 144. Shenzhen Sunxing Phosphorus Pentafluoride Product Portfolios and Specifications

Table 145. Shenzhen Sunxing Phosphorus Pentafluoride Sales (Kilotons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 146. Shenzhen Sunxing Main Business

Table 147. Shenzhen Sunxing Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Phosphorus Pentafluoride
- Figure 2. Phosphorus Pentafluoride Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Phosphorus Pentafluoride Sales Growth Rate 2021-2032 (Kilotons)
- Figure 7. Global Phosphorus Pentafluoride Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Phosphorus Pentafluoride Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Phosphorus Pentafluoride Sales Market Share by Country/Region (2025)
- Figure 10. Phosphorus Pentafluoride Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Industrial Grade
- Figure 12. Product Picture of High Purity Grade
- Figure 13. Global Phosphorus Pentafluoride Sales Market Share by Grade in 2026
- Figure 14. Global Phosphorus Pentafluoride Revenue Market Share by Grade (2021-2026)
- Figure 15. Product Picture of Phosphorus Pentachloride–Anhydrous Hydrogen Fluoride Route
- Figure 16. Product Picture of Phosphorus Trichloride/Chlorine–Anhydrous Hydrogen Fluoride Route
- Figure 17. Product Picture of Others
- Figure 18. Global Phosphorus Pentafluoride Sales Market Share by Production Route in 2026
- Figure 19. Global Phosphorus Pentafluoride Revenue Market Share by Production Route (2021-2026)
- Figure 20. Product Picture of Industrial-Park or Inter-Plant Pipeline Transfer
- Figure 21. Product Picture of Industrial Specialty Cylinder Supply
- Figure 22. Product Picture of Others
- Figure 23. Global Phosphorus Pentafluoride Sales Market Share by Supply Mode in 2026
- Figure 24. Global Phosphorus Pentafluoride Revenue Market Share by Supply Mode (2021-2026)
- Figure 25. Phosphorus Pentafluoride Consumed in Lithium Hexafluorophosphate

Production

Figure 26. Global Phosphorus Pentafluoride Market: Lithium Hexafluorophosphate Production (2021-2026) & (Kilotons)

Figure 27. Phosphorus Pentafluoride Consumed in Semiconductor

Figure 28. Global Phosphorus Pentafluoride Market: Semiconductor (2021-2026) & (Kilotons)

Figure 29. Phosphorus Pentafluoride Consumed in Others

Figure 30. Global Phosphorus Pentafluoride Market: Others (2021-2026) & (Kilotons)

Figure 31. Global Phosphorus Pentafluoride Sale Market Share by Application (2025)

Figure 32. Global Phosphorus Pentafluoride Revenue Market Share by Application in 2025

Figure 33. Phosphorus Pentafluoride Sales by Company in 2025 (Kilotons)

Figure 34. Global Phosphorus Pentafluoride Sales Market Share by Company in 2025

Figure 35. Phosphorus Pentafluoride Revenue by Company in 2025 (\$ millions)

Figure 36. Global Phosphorus Pentafluoride Revenue Market Share by Company in 2025

Figure 37. Global Phosphorus Pentafluoride Sales Market Share by Geographic Region (2021-2026)

Figure 38. Global Phosphorus Pentafluoride Revenue Market Share by Geographic Region in 2025

Figure 39. Americas Phosphorus Pentafluoride Sales 2021-2026 (Kilotons)

Figure 40. Americas Phosphorus Pentafluoride Revenue 2021-2026 (\$ millions)

Figure 41. APAC Phosphorus Pentafluoride Sales 2021-2026 (Kilotons)

Figure 42. APAC Phosphorus Pentafluoride Revenue 2021-2026 (\$ millions)

Figure 43. Europe Phosphorus Pentafluoride Sales 2021-2026 (Kilotons)

Figure 44. Europe Phosphorus Pentafluoride Revenue 2021-2026 (\$ millions)

Figure 45. Middle East & Africa Phosphorus Pentafluoride Sales 2021-2026 (Kilotons)

Figure 46. Middle East & Africa Phosphorus Pentafluoride Revenue 2021-2026 (\$ millions)

Figure 47. Americas Phosphorus Pentafluoride Sales Market Share by Country in 2025

Figure 48. Americas Phosphorus Pentafluoride Revenue Market Share by Country (2021-2026)

Figure 49. Americas Phosphorus Pentafluoride Sales Market Share by Grade (2021-2026)

Figure 50. Americas Phosphorus Pentafluoride Sales Market Share by Application (2021-2026)

Figure 51. United States Phosphorus Pentafluoride Revenue Growth 2021-2026 (\$ millions)

Figure 52. Canada Phosphorus Pentafluoride Revenue Growth 2021-2026 (\$ millions)

Figure 53. Mexico Phosphorus Pentafluoride Revenue Growth 2021-2026 (\$ millions)

Figure 54. Brazil Phosphorus Pentafluoride Revenue Growth 2021-2026 (\$ millions)

Figure 55. APAC Phosphorus Pentafluoride Sales Market Share by Region in 2025

Figure 56. APAC Phosphorus Pentafluoride Revenue Market Share by Region (2021-2026)

Figure 57. APAC Phosphorus Pentafluoride Sales Market Share by Grade (2021-2026)

Figure 58. APAC Phosphorus Pentafluoride Sales Market Share by Application (2021-2026)

Figure 59. China Phosphorus Pentafluoride Revenue Growth 2021-2026 (\$ millions)

Figure 60. Japan Phosphorus Pentafluoride Revenue Growth 2021-2026 (\$ millions)

Figure 61. South Korea Phosphorus Pentafluoride Revenue Growth 2021-2026 (\$ millions)

Figure 62. Southeast Asia Phosphorus Pentafluoride Revenue Growth 2021-2026 (\$ millions)

Figure 63. India Phosphorus Pentafluoride Revenue Growth 2021-2026 (\$ millions)

Figure 64. Australia Phosphorus Pentafluoride Revenue Growth 2021-2026 (\$ millions)

Figure 65. China Taiwan Phosphorus Pentafluoride Revenue Growth 2021-2026 (\$ millions)

Figure 66. Europe Phosphorus Pentafluoride Sales Market Share by Country in 2025

Figure 67. Europe Phosphorus Pentafluoride Revenue Market Share by Country (2021-2026)

Figure 68. Europe Phosphorus Pentafluoride Sales Market Share by Grade (2021-2026)

Figure 69. Europe Phosphorus Pentafluoride Sales Market Share by Application (2021-2026)

Figure 70. Germany Phosphorus Pentafluoride Revenue Growth 2021-2026 (\$ millions)

Figure 71. France Phosphorus Pentafluoride Revenue Growth 2021-2026 (\$ millions)

Figure 72. UK Phosphorus Pentafluoride Revenue Growth 2021-2026 (\$ millions)

Figure 73. Italy Phosphorus Pentafluoride Revenue Growth 2021-2026 (\$ millions)

Figure 74. Russia Phosphorus Pentafluoride Revenue Growth 2021-2026 (\$ millions)

Figure 75. Middle East & Africa Phosphorus Pentafluoride Sales Market Share by Country (2021-2026)

Figure 76. Middle East & Africa Phosphorus Pentafluoride Sales Market Share by Grade (2021-2026)

Figure 77. Middle East & Africa Phosphorus Pentafluoride Sales Market Share by Application (2021-2026)

Figure 78. Egypt Phosphorus Pentafluoride Revenue Growth 2021-2026 (\$ millions)

Figure 79. South Africa Phosphorus Pentafluoride Revenue Growth 2021-2026 (\$ millions)

Figure 80. Israel Phosphorus Pentafluoride Revenue Growth 2021-2026 (\$ millions)

Figure 81. Turkey Phosphorus Pentafluoride Revenue Growth 2021-2026 (\$ millions)

Figure 82. GCC Countries Phosphorus Pentafluoride Revenue Growth 2021-2026 (\$ millions)

Figure 83. Manufacturing Cost Structure Analysis of Phosphorus Pentafluoride in 2026

Figure 84. Manufacturing Process Analysis of Phosphorus Pentafluoride

Figure 85. Industry Chain Structure of Phosphorus Pentafluoride

Figure 86. Channels of Distribution

Figure 87. Global Phosphorus Pentafluoride Sales Market Forecast by Region (2027-2032)

Figure 88. Global Phosphorus Pentafluoride Revenue Market Share Forecast by Region (2027-2032)

Figure 89. Global Phosphorus Pentafluoride Sales Market Share Forecast by Grade (2027-2032)

Figure 90. Global Phosphorus Pentafluoride Revenue Market Share Forecast by Grade (2027-2032)

Figure 91. Global Phosphorus Pentafluoride Sales Market Share Forecast by Application (2027-2032)

Figure 92. Global Phosphorus Pentafluoride Revenue Market Share Forecast by Application (2027-2032)

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