

Global Phosphine Gas (PH₃) in Semiconductor Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Phosphine Gas (PH₃) in Semiconductor market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

The global market for semiconductor was estimated at US\$ 579 billion in the year 2022, is projected to US\$ 790 billion by 2029, growing at a CAGR of 6% during the forecast period. Although some major categories are still double-digit year-over-year growth in 2022, led by Analog with 20.76%, Sensor with 16.31%, and Logic with 14.46% growth, Memory declined with 12.64% year over year. The microprocessor (MPU) and microcontroller (MCU) segments will experience stagnant growth due to weak shipments and investment in notebooks, computers, and standard desktops. In the current market scenario, the growing popularity of IoT-based electronics is stimulating the need for powerful processors and controllers. Hybrid MPUs and MCUs provide real-time embedded processing and control for the topmost IoT-based applications, resulting in significant market growth. The Analog IC segment is expected to grow gradually, while demand from the networking and communications industries is limited. Few of the emerging trends in the growing demand for Analog integrated circuits include signal conversion, automotive-specific Analog applications, and power management. They drive the growing demand for discrete power devices.

This report is a detailed and comprehensive analysis for global Phosphine Gas (PH₃) in Semiconductor market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets.

Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Phosphine Gas (PH₃) in Semiconductor market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2020-2031

Global Phosphine Gas (PH₃) in Semiconductor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2020-2031

Global Phosphine Gas (PH₃) in Semiconductor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2020-2031

Global Phosphine Gas (PH₃) in Semiconductor market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Kg), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Phosphine Gas (PH₃) in Semiconductor
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global Phosphine Gas (PH₃) in Semiconductor market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Entegris, Linde plc, Versum Materials, Taiyo Nippon Sanso, Solvay, Nata Opto-electronic, Shanghai GenTech, etc.

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

Market Segmentation

Phosphine Gas (PH₃) in Semiconductor market is split by Type and by Application. For

the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

4N

5N

6N

Market segment by Application

Semiconductor Industry

Photovoltaic Industry

Major players covered

Entegris

Linde plc

Versum Materials

Taiyo Nippon Sanso

Solvay

Nata Opto-electronic

Shanghai GenTech

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Phosphine Gas (PH₃) in Semiconductor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Phosphine Gas (PH₃) in Semiconductor, with price, sales quantity, revenue, and global market share of Phosphine Gas (PH₃) in Semiconductor from 2020 to 2025.

Chapter 3, the Phosphine Gas (PH₃) in Semiconductor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Phosphine Gas (PH₃) in Semiconductor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Phosphine Gas (PH₃) in Semiconductor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Phosphine Gas (PH₃) in Semiconductor.

Chapter 14 and 15, to describe Phosphine Gas (PH₃) in Semiconductor sales channel,

distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Phosphine Gas (PH3) in Semiconductor Consumption Value by Type: 2020 Versus 2024 Versus 2031

1.3.2 4N

1.3.3 5N

1.3.4 6N

1.4 Market Analysis by Application

1.4.1 Overview: Global Phosphine Gas (PH3) in Semiconductor Consumption Value by Application: 2020 Versus 2024 Versus 2031

1.4.2 Semiconductor Industry

1.4.3 Photovoltaic Industry

1.5 Global Phosphine Gas (PH3) in Semiconductor Market Size & Forecast

1.5.1 Global Phosphine Gas (PH3) in Semiconductor Consumption Value (2020 & 2024 & 2031)

1.5.2 Global Phosphine Gas (PH3) in Semiconductor Sales Quantity (2020-2031)

1.5.3 Global Phosphine Gas (PH3) in Semiconductor Average Price (2020-2031)

2 MANUFACTURERS PROFILES

2.1 Entegris

2.1.1 Entegris Details

2.1.2 Entegris Major Business

2.1.3 Entegris Phosphine Gas (PH3) in Semiconductor Product and Services

2.1.4 Entegris Phosphine Gas (PH3) in Semiconductor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.1.5 Entegris Recent Developments/Updates

2.2 Linde plc

2.2.1 Linde plc Details

2.2.2 Linde plc Major Business

2.2.3 Linde plc Phosphine Gas (PH3) in Semiconductor Product and Services

2.2.4 Linde plc Phosphine Gas (PH3) in Semiconductor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.2.5 Linde plc Recent Developments/Updates

2.3 Versum Materials

2.3.1 Versum Materials Details

2.3.2 Versum Materials Major Business

2.3.3 Versum Materials Phosphine Gas (PH3) in Semiconductor Product and Services

2.3.4 Versum Materials Phosphine Gas (PH3) in Semiconductor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.3.5 Versum Materials Recent Developments/Updates

2.4 Taiyo Nippon Sanso

2.4.1 Taiyo Nippon Sanso Details

2.4.2 Taiyo Nippon Sanso Major Business

2.4.3 Taiyo Nippon Sanso Phosphine Gas (PH3) in Semiconductor Product and Services

2.4.4 Taiyo Nippon Sanso Phosphine Gas (PH3) in Semiconductor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.4.5 Taiyo Nippon Sanso Recent Developments/Updates

2.5 Solvay

2.5.1 Solvay Details

2.5.2 Solvay Major Business

2.5.3 Solvay Phosphine Gas (PH3) in Semiconductor Product and Services

2.5.4 Solvay Phosphine Gas (PH3) in Semiconductor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.5.5 Solvay Recent Developments/Updates

2.6 Nata Opto-electronic

2.6.1 Nata Opto-electronic Details

2.6.2 Nata Opto-electronic Major Business

2.6.3 Nata Opto-electronic Phosphine Gas (PH3) in Semiconductor Product and Services

2.6.4 Nata Opto-electronic Phosphine Gas (PH3) in Semiconductor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.6.5 Nata Opto-electronic Recent Developments/Updates

2.7 Shanghai GenTech

2.7.1 Shanghai GenTech Details

2.7.2 Shanghai GenTech Major Business

2.7.3 Shanghai GenTech Phosphine Gas (PH3) in Semiconductor Product and Services

2.7.4 Shanghai GenTech Phosphine Gas (PH3) in Semiconductor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.7.5 Shanghai GenTech Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: PHOSPHINE GAS (PH₃) IN SEMICONDUCTOR BY MANUFACTURER

3.1 Global Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Manufacturer (2020-2025)

3.2 Global Phosphine Gas (PH₃) in Semiconductor Revenue by Manufacturer (2020-2025)

3.3 Global Phosphine Gas (PH₃) in Semiconductor Average Price by Manufacturer (2020-2025)

3.4 Market Share Analysis (2024)

3.4.1 Producer Shipments of Phosphine Gas (PH₃) in Semiconductor by Manufacturer Revenue (\$MM) and Market Share (%): 2024

3.4.2 Top 3 Phosphine Gas (PH₃) in Semiconductor Manufacturer Market Share in 2024

3.4.3 Top 6 Phosphine Gas (PH₃) in Semiconductor Manufacturer Market Share in 2024

3.5 Phosphine Gas (PH₃) in Semiconductor Market: Overall Company Footprint Analysis

3.5.1 Phosphine Gas (PH₃) in Semiconductor Market: Region Footprint

3.5.2 Phosphine Gas (PH₃) in Semiconductor Market: Company Product Type Footprint

3.5.3 Phosphine Gas (PH₃) in Semiconductor Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Phosphine Gas (PH₃) in Semiconductor Market Size by Region

4.1.1 Global Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Region (2020-2031)

4.1.2 Global Phosphine Gas (PH₃) in Semiconductor Consumption Value by Region (2020-2031)

4.1.3 Global Phosphine Gas (PH₃) in Semiconductor Average Price by Region (2020-2031)

4.2 North America Phosphine Gas (PH₃) in Semiconductor Consumption Value (2020-2031)

4.3 Europe Phosphine Gas (PH₃) in Semiconductor Consumption Value (2020-2031)

4.4 Asia-Pacific Phosphine Gas (PH₃) in Semiconductor Consumption Value

(2020-2031)

4.5 South America Phosphine Gas (PH₃) in Semiconductor Consumption Value

(2020-2031)

4.6 Middle East & Africa Phosphine Gas (PH₃) in Semiconductor Consumption Value

(2020-2031)

5 MARKET SEGMENT BY TYPE

5.1 Global Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Type (2020-2031)

5.2 Global Phosphine Gas (PH₃) in Semiconductor Consumption Value by Type

(2020-2031)

5.3 Global Phosphine Gas (PH₃) in Semiconductor Average Price by Type (2020-2031)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Application

(2020-2031)

6.2 Global Phosphine Gas (PH₃) in Semiconductor Consumption Value by Application

(2020-2031)

6.3 Global Phosphine Gas (PH₃) in Semiconductor Average Price by Application

(2020-2031)

7 NORTH AMERICA

7.1 North America Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Type

(2020-2031)

7.2 North America Phosphine Gas (PH₃) in Semiconductor Sales Quantity by

Application (2020-2031)

7.3 North America Phosphine Gas (PH₃) in Semiconductor Market Size by Country

7.3.1 North America Phosphine Gas (PH₃) in Semiconductor Sales Quantity by
Country (2020-2031)

7.3.2 North America Phosphine Gas (PH₃) in Semiconductor Consumption Value by
Country (2020-2031)

7.3.3 United States Market Size and Forecast (2020-2031)

7.3.4 Canada Market Size and Forecast (2020-2031)

7.3.5 Mexico Market Size and Forecast (2020-2031)

8 EUROPE

- 8.1 Europe Phosphine Gas (PH3) in Semiconductor Sales Quantity by Type (2020-2031)
- 8.2 Europe Phosphine Gas (PH3) in Semiconductor Sales Quantity by Application (2020-2031)
- 8.3 Europe Phosphine Gas (PH3) in Semiconductor Market Size by Country
 - 8.3.1 Europe Phosphine Gas (PH3) in Semiconductor Sales Quantity by Country (2020-2031)
 - 8.3.2 Europe Phosphine Gas (PH3) in Semiconductor Consumption Value by Country (2020-2031)
 - 8.3.3 Germany Market Size and Forecast (2020-2031)
 - 8.3.4 France Market Size and Forecast (2020-2031)
 - 8.3.5 United Kingdom Market Size and Forecast (2020-2031)
 - 8.3.6 Russia Market Size and Forecast (2020-2031)
 - 8.3.7 Italy Market Size and Forecast (2020-2031)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Phosphine Gas (PH3) in Semiconductor Sales Quantity by Type (2020-2031)
- 9.2 Asia-Pacific Phosphine Gas (PH3) in Semiconductor Sales Quantity by Application (2020-2031)
- 9.3 Asia-Pacific Phosphine Gas (PH3) in Semiconductor Market Size by Region
 - 9.3.1 Asia-Pacific Phosphine Gas (PH3) in Semiconductor Sales Quantity by Region (2020-2031)
 - 9.3.2 Asia-Pacific Phosphine Gas (PH3) in Semiconductor Consumption Value by Region (2020-2031)
 - 9.3.3 China Market Size and Forecast (2020-2031)
 - 9.3.4 Japan Market Size and Forecast (2020-2031)
 - 9.3.5 South Korea Market Size and Forecast (2020-2031)
 - 9.3.6 India Market Size and Forecast (2020-2031)
 - 9.3.7 Southeast Asia Market Size and Forecast (2020-2031)
 - 9.3.8 Australia Market Size and Forecast (2020-2031)

10 SOUTH AMERICA

- 10.1 South America Phosphine Gas (PH3) in Semiconductor Sales Quantity by Type (2020-2031)
- 10.2 South America Phosphine Gas (PH3) in Semiconductor Sales Quantity by Application (2020-2031)

10.3 South America Phosphine Gas (PH₃) in Semiconductor Market Size by Country

10.3.1 South America Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Country (2020-2031)

10.3.2 South America Phosphine Gas (PH₃) in Semiconductor Consumption Value by Country (2020-2031)

10.3.3 Brazil Market Size and Forecast (2020-2031)

10.3.4 Argentina Market Size and Forecast (2020-2031)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Type (2020-2031)

11.2 Middle East & Africa Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Application (2020-2031)

11.3 Middle East & Africa Phosphine Gas (PH₃) in Semiconductor Market Size by Country

11.3.1 Middle East & Africa Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Country (2020-2031)

11.3.2 Middle East & Africa Phosphine Gas (PH₃) in Semiconductor Consumption Value by Country (2020-2031)

11.3.3 Turkey Market Size and Forecast (2020-2031)

11.3.4 Egypt Market Size and Forecast (2020-2031)

11.3.5 Saudi Arabia Market Size and Forecast (2020-2031)

11.3.6 South Africa Market Size and Forecast (2020-2031)

12 MARKET DYNAMICS

12.1 Phosphine Gas (PH₃) in Semiconductor Market Drivers

12.2 Phosphine Gas (PH₃) in Semiconductor Market Restraints

12.3 Phosphine Gas (PH₃) in Semiconductor Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Phosphine Gas (PH₃) in Semiconductor and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Phosphine Gas (PH₃) in Semiconductor
- 13.3 Phosphine Gas (PH₃) in Semiconductor Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Phosphine Gas (PH₃) in Semiconductor Typical Distributors
- 14.3 Phosphine Gas (PH₃) in Semiconductor Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Phosphine Gas (PH3) in Semiconductor Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global Phosphine Gas (PH3) in Semiconductor Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. Entegris Basic Information, Manufacturing Base and Competitors

Table 4. Entegris Major Business

Table 5. Entegris Phosphine Gas (PH3) in Semiconductor Product and Services

Table 6. Entegris Phosphine Gas (PH3) in Semiconductor Sales Quantity (Tons), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. Entegris Recent Developments/Updates

Table 8. Linde plc Basic Information, Manufacturing Base and Competitors

Table 9. Linde plc Major Business

Table 10. Linde plc Phosphine Gas (PH3) in Semiconductor Product and Services

Table 11. Linde plc Phosphine Gas (PH3) in Semiconductor Sales Quantity (Tons), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. Linde plc Recent Developments/Updates

Table 13. Versum Materials Basic Information, Manufacturing Base and Competitors

Table 14. Versum Materials Major Business

Table 15. Versum Materials Phosphine Gas (PH3) in Semiconductor Product and Services

Table 16. Versum Materials Phosphine Gas (PH3) in Semiconductor Sales Quantity (Tons), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. Versum Materials Recent Developments/Updates

Table 18. Taiyo Nippon Sanso Basic Information, Manufacturing Base and Competitors

Table 19. Taiyo Nippon Sanso Major Business

Table 20. Taiyo Nippon Sanso Phosphine Gas (PH3) in Semiconductor Product and Services

Table 21. Taiyo Nippon Sanso Phosphine Gas (PH3) in Semiconductor Sales Quantity (Tons), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 22. Taiyo Nippon Sanso Recent Developments/Updates

Table 23. Solvay Basic Information, Manufacturing Base and Competitors

Table 24. Solvay Major Business

Table 25. Solvay Phosphine Gas (PH3) in Semiconductor Product and Services

Table 26. Solvay Phosphine Gas (PH3) in Semiconductor Sales Quantity (Tons), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 27. Solvay Recent Developments/Updates

Table 28. Nata Opto-electronic Basic Information, Manufacturing Base and Competitors

Table 29. Nata Opto-electronic Major Business

Table 30. Nata Opto-electronic Phosphine Gas (PH3) in Semiconductor Product and Services

Table 31. Nata Opto-electronic Phosphine Gas (PH3) in Semiconductor Sales Quantity (Tons), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 32. Nata Opto-electronic Recent Developments/Updates

Table 33. Shanghai GenTech Basic Information, Manufacturing Base and Competitors

Table 34. Shanghai GenTech Major Business

Table 35. Shanghai GenTech Phosphine Gas (PH3) in Semiconductor Product and Services

Table 36. Shanghai GenTech Phosphine Gas (PH3) in Semiconductor Sales Quantity (Tons), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 37. Shanghai GenTech Recent Developments/Updates

Table 38. Global Phosphine Gas (PH3) in Semiconductor Sales Quantity by Manufacturer (2020-2025) & (Tons)

Table 39. Global Phosphine Gas (PH3) in Semiconductor Revenue by Manufacturer (2020-2025) & (USD Million)

Table 40. Global Phosphine Gas (PH3) in Semiconductor Average Price by Manufacturer (2020-2025) & (US\$/Kg)

Table 41. Market Position of Manufacturers in Phosphine Gas (PH3) in Semiconductor, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024

Table 42. Head Office and Phosphine Gas (PH3) in Semiconductor Production Site of Key Manufacturer

Table 43. Phosphine Gas (PH3) in Semiconductor Market: Company Product Type Footprint

Table 44. Phosphine Gas (PH3) in Semiconductor Market: Company Product Application Footprint

Table 45. Phosphine Gas (PH3) in Semiconductor New Market Entrants and Barriers to Market Entry

Table 46. Phosphine Gas (PH3) in Semiconductor Mergers, Acquisition, Agreements,

and Collaborations

Table 47. Global Phosphine Gas (PH3) in Semiconductor Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR

Table 48. Global Phosphine Gas (PH3) in Semiconductor Sales Quantity by Region (2020-2025) & (Tons)

Table 49. Global Phosphine Gas (PH3) in Semiconductor Sales Quantity by Region (2026-2031) & (Tons)

Table 50. Global Phosphine Gas (PH3) in Semiconductor Consumption Value by Region (2020-2025) & (USD Million)

Table 51. Global Phosphine Gas (PH3) in Semiconductor Consumption Value by Region (2026-2031) & (USD Million)

Table 52. Global Phosphine Gas (PH3) in Semiconductor Average Price by Region (2020-2025) & (US\$/Kg)

Table 53. Global Phosphine Gas (PH3) in Semiconductor Average Price by Region (2026-2031) & (US\$/Kg)

Table 54. Global Phosphine Gas (PH3) in Semiconductor Sales Quantity by Type (2020-2025) & (Tons)

Table 55. Global Phosphine Gas (PH3) in Semiconductor Sales Quantity by Type (2026-2031) & (Tons)

Table 56. Global Phosphine Gas (PH3) in Semiconductor Consumption Value by Type (2020-2025) & (USD Million)

Table 57. Global Phosphine Gas (PH3) in Semiconductor Consumption Value by Type (2026-2031) & (USD Million)

Table 58. Global Phosphine Gas (PH3) in Semiconductor Average Price by Type (2020-2025) & (US\$/Kg)

Table 59. Global Phosphine Gas (PH3) in Semiconductor Average Price by Type (2026-2031) & (US\$/Kg)

Table 60. Global Phosphine Gas (PH3) in Semiconductor Sales Quantity by Application (2020-2025) & (Tons)

Table 61. Global Phosphine Gas (PH3) in Semiconductor Sales Quantity by Application (2026-2031) & (Tons)

Table 62. Global Phosphine Gas (PH3) in Semiconductor Consumption Value by Application (2020-2025) & (USD Million)

Table 63. Global Phosphine Gas (PH3) in Semiconductor Consumption Value by Application (2026-2031) & (USD Million)

Table 64. Global Phosphine Gas (PH3) in Semiconductor Average Price by Application (2020-2025) & (US\$/Kg)

Table 65. Global Phosphine Gas (PH3) in Semiconductor Average Price by Application (2026-2031) & (US\$/Kg)

Table 66. North America Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Type (2020-2025) & (Tons)

Table 67. North America Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Type (2026-2031) & (Tons)

Table 68. North America Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Application (2020-2025) & (Tons)

Table 69. North America Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Application (2026-2031) & (Tons)

Table 70. North America Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Country (2020-2025) & (Tons)

Table 71. North America Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Country (2026-2031) & (Tons)

Table 72. North America Phosphine Gas (PH₃) in Semiconductor Consumption Value by Country (2020-2025) & (USD Million)

Table 73. North America Phosphine Gas (PH₃) in Semiconductor Consumption Value by Country (2026-2031) & (USD Million)

Table 74. Europe Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Type (2020-2025) & (Tons)

Table 75. Europe Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Type (2026-2031) & (Tons)

Table 76. Europe Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Application (2020-2025) & (Tons)

Table 77. Europe Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Application (2026-2031) & (Tons)

Table 78. Europe Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Country (2020-2025) & (Tons)

Table 79. Europe Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Country (2026-2031) & (Tons)

Table 80. Europe Phosphine Gas (PH₃) in Semiconductor Consumption Value by Country (2020-2025) & (USD Million)

Table 81. Europe Phosphine Gas (PH₃) in Semiconductor Consumption Value by Country (2026-2031) & (USD Million)

Table 82. Asia-Pacific Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Type (2020-2025) & (Tons)

Table 83. Asia-Pacific Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Type (2026-2031) & (Tons)

Table 84. Asia-Pacific Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Application (2020-2025) & (Tons)

Table 85. Asia-Pacific Phosphine Gas (PH₃) in Semiconductor Sales Quantity by

Application (2026-2031) & (Tons)

Table 86. Asia-Pacific Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Region (2020-2025) & (Tons)

Table 87. Asia-Pacific Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Region (2026-2031) & (Tons)

Table 88. Asia-Pacific Phosphine Gas (PH₃) in Semiconductor Consumption Value by Region (2020-2025) & (USD Million)

Table 89. Asia-Pacific Phosphine Gas (PH₃) in Semiconductor Consumption Value by Region (2026-2031) & (USD Million)

Table 90. South America Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Type (2020-2025) & (Tons)

Table 91. South America Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Type (2026-2031) & (Tons)

Table 92. South America Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Application (2020-2025) & (Tons)

Table 93. South America Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Application (2026-2031) & (Tons)

Table 94. South America Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Country (2020-2025) & (Tons)

Table 95. South America Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Country (2026-2031) & (Tons)

Table 96. South America Phosphine Gas (PH₃) in Semiconductor Consumption Value by Country (2020-2025) & (USD Million)

Table 97. South America Phosphine Gas (PH₃) in Semiconductor Consumption Value by Country (2026-2031) & (USD Million)

Table 98. Middle East & Africa Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Type (2020-2025) & (Tons)

Table 99. Middle East & Africa Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Type (2026-2031) & (Tons)

Table 100. Middle East & Africa Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Application (2020-2025) & (Tons)

Table 101. Middle East & Africa Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Application (2026-2031) & (Tons)

Table 102. Middle East & Africa Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Country (2020-2025) & (Tons)

Table 103. Middle East & Africa Phosphine Gas (PH₃) in Semiconductor Sales Quantity by Country (2026-2031) & (Tons)

Table 104. Middle East & Africa Phosphine Gas (PH₃) in Semiconductor Consumption Value by Country (2020-2025) & (USD Million)

Table 105. Middle East & Africa Phosphine Gas (PH₃) in Semiconductor Consumption Value by Country (2026-2031) & (USD Million)

Table 106. Phosphine Gas (PH₃) in Semiconductor Raw Material

Table 107. Key Manufacturers of Phosphine Gas (PH₃) in Semiconductor Raw Materials

Table 108. Phosphine Gas (PH₃) in Semiconductor Typical Distributors

Table 109. Phosphine Gas (PH₃) in Semiconductor Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Phosphine Gas (PH₃) in Semiconductor Picture

Figure 2. Global Phosphine Gas (PH₃) in Semiconductor Revenue by Type, (USD Million), 2020 & 2024 & 2031

Figure 3. Global Phosphine Gas (PH₃) in Semiconductor Revenue Market Share by Type in 2024

Figure 4. 4N Examples

Figure 5. 5N Examples

Figure 6. 6N Examples

Figure 7. Global Phosphine Gas (PH₃) in Semiconductor Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Figure 8. Global Phosphine Gas (PH₃) in Semiconductor Revenue Market Share by Application in 2024

Figure 9. Semiconductor Industry Examples

Figure 10. Photovoltaic Industry Examples

Figure 11. Global Phosphine Gas (PH₃) in Semiconductor Consumption Value, (USD Million): 2020 & 2024 & 2031

Figure 12. Global Phosphine Gas (PH₃) in Semiconductor Consumption Value and Forecast (2020-2031) & (USD Million)

Figure 13. Global Phosphine Gas (PH₃) in Semiconductor Sales Quantity (2020-2031) & (Tons)

Figure 14. Global Phosphine Gas (PH₃) in Semiconductor Price (2020-2031) & (US\$/Kg)

Figure 15. Global Phosphine Gas (PH₃) in Semiconductor Sales Quantity Market Share by Manufacturer in 2024

Figure 16. Global Phosphine Gas (PH₃) in Semiconductor Revenue Market Share by Manufacturer in 2024

Figure 17. Producer Shipments of Phosphine Gas (PH₃) in Semiconductor by Manufacturer Sales (\$MM) and Market Share (%): 2024

Figure 18. Top 3 Phosphine Gas (PH₃) in Semiconductor Manufacturer (Revenue) Market Share in 2024

Figure 19. Top 6 Phosphine Gas (PH₃) in Semiconductor Manufacturer (Revenue) Market Share in 2024

Figure 20. Global Phosphine Gas (PH₃) in Semiconductor Sales Quantity Market Share by Region (2020-2031)

Figure 21. Global Phosphine Gas (PH₃) in Semiconductor Consumption Value Market

Share by Region (2020-2031)

Figure 22. North America Phosphine Gas (PH₃) in Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 23. Europe Phosphine Gas (PH₃) in Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 24. Asia-Pacific Phosphine Gas (PH₃) in Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 25. South America Phosphine Gas (PH₃) in Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 26. Middle East & Africa Phosphine Gas (PH₃) in Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 27. Global Phosphine Gas (PH₃) in Semiconductor Sales Quantity Market Share by Type (2020-2031)

Figure 28. Global Phosphine Gas (PH₃) in Semiconductor Consumption Value Market Share by Type (2020-2031)

Figure 29. Global Phosphine Gas (PH₃) in Semiconductor Average Price by Type (2020-2031) & (US\$/Kg)

Figure 30. Global Phosphine Gas (PH₃) in Semiconductor Sales Quantity Market Share by Application (2020-2031)

Figure 31. Global Phosphine Gas (PH₃) in Semiconductor Revenue Market Share by Application (2020-2031)

Figure 32. Global Phosphine Gas (PH₃) in Semiconductor Average Price by Application (2020-2031) & (US\$/Kg)

Figure 33. North America Phosphine Gas (PH₃) in Semiconductor Sales Quantity Market Share by Type (2020-2031)

Figure 34. North America Phosphine Gas (PH₃) in Semiconductor Sales Quantity Market Share by Application (2020-2031)

Figure 35. North America Phosphine Gas (PH₃) in Semiconductor Sales Quantity Market Share by Country (2020-2031)

Figure 36. North America Phosphine Gas (PH₃) in Semiconductor Consumption Value Market Share by Country (2020-2031)

Figure 37. United States Phosphine Gas (PH₃) in Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 38. Canada Phosphine Gas (PH₃) in Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 39. Mexico Phosphine Gas (PH₃) in Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 40. Europe Phosphine Gas (PH₃) in Semiconductor Sales Quantity Market Share by Type (2020-2031)

Figure 41. Europe Phosphine Gas (PH3) in Semiconductor Sales Quantity Market Share by Application (2020-2031)

Figure 42. Europe Phosphine Gas (PH3) in Semiconductor Sales Quantity Market Share by Country (2020-2031)

Figure 43. Europe Phosphine Gas (PH3) in Semiconductor Consumption Value Market Share by Country (2020-2031)

Figure 44. Germany Phosphine Gas (PH3) in Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 45. France Phosphine Gas (PH3) in Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 46. United Kingdom Phosphine Gas (PH3) in Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 47. Russia Phosphine Gas (PH3) in Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 48. Italy Phosphine Gas (PH3) in Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 49. Asia-Pacific Phosphine Gas (PH3) in Semiconductor Sales Quantity Market Share by Type (2020-2031)

Figure 50. Asia-Pacific Phosphine Gas (PH3) in Semiconductor Sales Quantity Market Share by Application (2020-2031)

Figure 51. Asia-Pacific Phosphine Gas (PH3) in Semiconductor Sales Quantity Market Share by Region (2020-2031)

Figure 52. Asia-Pacific Phosphine Gas (PH3) in Semiconductor Consumption Value Market Share by Region (2020-2031)

Figure 53. China Phosphine Gas (PH3) in Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 54. Japan Phosphine Gas (PH3) in Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 55. South Korea Phosphine Gas (PH3) in Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 56. India Phosphine Gas (PH3) in Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 57. Southeast Asia Phosphine Gas (PH3) in Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 58. Australia Phosphine Gas (PH3) in Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 59. South America Phosphine Gas (PH3) in Semiconductor Sales Quantity Market Share by Type (2020-2031)

Figure 60. South America Phosphine Gas (PH3) in Semiconductor Sales Quantity

Market Share by Application (2020-2031)

Figure 61. South America Phosphine Gas (PH3) in Semiconductor Sales Quantity

Market Share by Country (2020-2031)

Figure 62. South America Phosphine Gas (PH3) in Semiconductor Consumption Value

Market Share by Country (2020-2031)

Figure 63. Brazil Phosphine Gas (PH3) in Semiconductor Consumption Value
(2020-2031) & (USD Million)

Figure 64. Argentina Phosphine Gas (PH3) in Semiconductor Consumption Value
(2020-2031) & (USD Million)

Figure 65. Middle East & Africa Phosphine Gas (PH3) in Semiconductor Sales Quantity
Market Share by Type (2020-2031)

Figure 66. Middle East & Africa Phosphine Gas (PH3) in Semiconductor Sales Quantity
Market Share by Application (2020-2031)

Figure 67. Middle East & Africa Phosphine Gas (PH3) in Semiconductor Sales Quantity
Market Share by Country (2020-2031)

Figure 68. Middle East & Africa Phosphine Gas (PH3) in Semiconductor Consumption
Value Market Share by Country (2020-2031)

Figure 69. Turkey Phosphine Gas (PH3) in Semiconductor Consumption Value
(2020-2031) & (USD Million)

Figure 70. Egypt Phosphine Gas (PH3) in Semiconductor Consumption Value
(2020-2031) & (USD Million)

Figure 71. Saudi Arabia Phosphine Gas (PH3) in Semiconductor Consumption Value
(2020-2031) & (USD Million)

Figure 72. South Africa Phosphine Gas (PH3) in Semiconductor Consumption Value
(2020-2031) & (USD Million)

Figure 73. Phosphine Gas (PH3) in Semiconductor Market Drivers

Figure 74. Phosphine Gas (PH3) in Semiconductor Market Restraints

Figure 75. Phosphine Gas (PH3) in Semiconductor Market Trends

Figure 76. Porters Five Forces Analysis

Figure 77. Manufacturing Cost Structure Analysis of Phosphine Gas (PH3) in
Semiconductor in 2024

Figure 78. Manufacturing Process Analysis of Phosphine Gas (PH3) in Semiconductor

Figure 79. Phosphine Gas (PH3) in Semiconductor Industrial Chain

Figure 80. Sales Channel: Direct to End-User vs Distributors

Figure 81. Direct Channel Pros & Cons

Figure 82. Indirect Channel Pros & Cons

Figure 83. Methodology

Figure 84. Research Process and Data Source

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