

Global High-k and CVD ALD Metal Precursor Market Growth 2023-2029

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Abstracts

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Precursors are the main raw materials for semiconductor thin film deposition processes, and are mainly used in vapor deposition (including PVD, CVD, and ALD) to form various thin film layers that meet the requirements of semiconductor manufacturing. Precursors can be divided into high-k precursors, low-k precursors, silicon oxide and silicon nitride precursors, metal and metal nitride precursors, etc.

High dielectric constant precursor (High-k): Mainly used in 45nm and below semiconductor manufacturing process, used in CVD and ALD deposition technology of memory and logic chips to form capacitive dielectric or gate dielectric in integrated circuits, to solve the problem of device scaling and leakage, which can reduce leakage to about 10 times that of traditional processes and greatly improve yield; it can also be applied to flexible OLED ALD processes to protect organic light-emitting materials from oxygen and water vapor, and improve overall performance and life. .

Metal and metal nitride precursors are mainly used for capacitor electrodes, gate transition layers, and isolation materials in storage and logic chips, which are conducive to the preparation of smaller capacitors; they can also be used as phase-change materials in phase-change memories, which can improve storage data. speed.

LPI (LP Information)' newest research report, the "High-k and CVD ALD Metal Precursor Industry Forecast" looks at past sales and reviews total world High-k and CVD ALD Metal Precursor sales in 2022, providing a comprehensive analysis by region and market sector of projected High-k and CVD ALD Metal Precursor sales for 2023 through 2029. With High-k and CVD ALD Metal Precursor sales broken down by region,

market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world High-k and CVD ALD Metal Precursor industry.

This Insight Report provides a comprehensive analysis of the global High-k and CVD ALD Metal Precursor 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 High-k and CVD ALD Metal Precursor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global High-k and CVD ALD Metal Precursor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for High-k and CVD ALD Metal Precursor and breaks down the forecast by type, 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 High-k and CVD ALD Metal Precursor.

The global High-k and CVD ALD Metal Precursor market size is projected to grow from US\$ million in 2022 to US\$ million in 2029; it is expected to grow at a CAGR of % from 2023 to 2029.

United States market for High-k and CVD ALD Metal Precursor is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

China market for High-k and CVD ALD Metal Precursor is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

Europe market for High-k and CVD ALD Metal Precursor is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

Global key High-k and CVD ALD Metal Precursor players cover Air Liquide, Merck, DNF, Nanmat Technology, Adeka Corporation, Entegris, Inc., Strem (Ascensus Specialties), Tri Chemical Laboratories and UP Chemical (Yoke Technology), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2022.

This report presents a comprehensive overview, market shares, and growth opportunities of High-k and CVD ALD Metal Precursor market by product type, application, key manufacturers and key regions and countries.

Market Segmentation:

Segmentation by type

High-k Precursor

Metal Precursor

Segmentation by application

Gates Manufacturing

Capacitors Manufacturing

Electrodes Manufacturing

Interconnects Manufacturing

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 analyzing the company's coverage, product portfolio, its market penetration.

Air Liquide

Merck

DNF

Nanmat Technology

Adeka Corporation

Entegris, Inc.

Strem (Ascensus Specialties)

Tri Chemical Laboratories

UP Chemical (Yoke Technology)

City Chemical

Soulbrain

Hansol Chemical

Key Questions Addressed in this Report

What is the 10-year outlook for the global High-k and CVD ALD Metal Precursor market?

What factors are driving High-k and CVD ALD Metal Precursor market growth, globally and by region?

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

How do High-k and CVD ALD Metal Precursor market opportunities vary by end market size?

How does High-k and CVD ALD Metal Precursor break out type, application?

What are the influences of COVID-19 and Russia-Ukraine war?

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 High-k and CVD ALD Metal Precursor Annual Sales 2018-2029
 - 2.1.2 World Current & Future Analysis for High-k and CVD ALD Metal Precursor by Geographic Region, 2018, 2022 & 2029
 - 2.1.3 World Current & Future Analysis for High-k and CVD ALD Metal Precursor by Country/Region, 2018, 2022 & 2029
- 2.2 High-k and CVD ALD Metal Precursor Segment by Type
 - 2.2.1 High-k Precursor
 - 2.2.2 Metal Precursor
- 2.3 High-k and CVD ALD Metal Precursor Sales by Type
 - 2.3.1 Global High-k and CVD ALD Metal Precursor Sales Market Share by Type (2018-2023)
 - 2.3.2 Global High-k and CVD ALD Metal Precursor Revenue and Market Share by Type (2018-2023)
 - 2.3.3 Global High-k and CVD ALD Metal Precursor Sale Price by Type (2018-2023)
- 2.4 High-k and CVD ALD Metal Precursor Segment by Application
 - 2.4.1 Gates Manufacturing
 - 2.4.2 Capacitors Manufacturing
 - 2.4.3 Electrodes Manufacturing
 - 2.4.4 Interconnects Manufacturing
 - 2.4.5 Others
- 2.5 High-k and CVD ALD Metal Precursor Sales by Application
 - 2.5.1 Global High-k and CVD ALD Metal Precursor Sale Market Share by Application (2018-2023)

2.5.2 Global High-k and CVD ALD Metal Precursor Revenue and Market Share by Application (2018-2023)

2.5.3 Global High-k and CVD ALD Metal Precursor Sale Price by Application (2018-2023)

3 GLOBAL HIGH-K AND CVD ALD METAL PRECURSOR BY COMPANY

3.1 Global High-k and CVD ALD Metal Precursor Breakdown Data by Company

3.1.1 Global High-k and CVD ALD Metal Precursor Annual Sales by Company (2018-2023)

3.1.2 Global High-k and CVD ALD Metal Precursor Sales Market Share by Company (2018-2023)

3.2 Global High-k and CVD ALD Metal Precursor Annual Revenue by Company (2018-2023)

3.2.1 Global High-k and CVD ALD Metal Precursor Revenue by Company (2018-2023)

3.2.2 Global High-k and CVD ALD Metal Precursor Revenue Market Share by Company (2018-2023)

3.3 Global High-k and CVD ALD Metal Precursor Sale Price by Company

3.4 Key Manufacturers High-k and CVD ALD Metal Precursor Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers High-k and CVD ALD Metal Precursor Product Location Distribution

3.4.2 Players High-k and CVD ALD Metal Precursor Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2018-2023)

3.6 New Products and Potential Entrants

3.7 Mergers & Acquisitions, Expansion

4 WORLD HISTORIC REVIEW FOR HIGH-K AND CVD ALD METAL PRECURSOR BY GEOGRAPHIC REGION

4.1 World Historic High-k and CVD ALD Metal Precursor Market Size by Geographic Region (2018-2023)

4.1.1 Global High-k and CVD ALD Metal Precursor Annual Sales by Geographic Region (2018-2023)

4.1.2 Global High-k and CVD ALD Metal Precursor Annual Revenue by Geographic Region (2018-2023)

4.2 World Historic High-k and CVD ALD Metal Precursor Market Size by

Country/Region (2018-2023)

4.2.1 Global High-k and CVD ALD Metal Precursor Annual Sales by Country/Region (2018-2023)

4.2.2 Global High-k and CVD ALD Metal Precursor Annual Revenue by Country/Region (2018-2023)

4.3 Americas High-k and CVD ALD Metal Precursor Sales Growth

4.4 APAC High-k and CVD ALD Metal Precursor Sales Growth

4.5 Europe High-k and CVD ALD Metal Precursor Sales Growth

4.6 Middle East & Africa High-k and CVD ALD Metal Precursor Sales Growth

5 AMERICAS

5.1 Americas High-k and CVD ALD Metal Precursor Sales by Country

5.1.1 Americas High-k and CVD ALD Metal Precursor Sales by Country (2018-2023)

5.1.2 Americas High-k and CVD ALD Metal Precursor Revenue by Country (2018-2023)

5.2 Americas High-k and CVD ALD Metal Precursor Sales by Type

5.3 Americas High-k and CVD ALD Metal Precursor Sales by Application

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC High-k and CVD ALD Metal Precursor Sales by Region

6.1.1 APAC High-k and CVD ALD Metal Precursor Sales by Region (2018-2023)

6.1.2 APAC High-k and CVD ALD Metal Precursor Revenue by Region (2018-2023)

6.2 APAC High-k and CVD ALD Metal Precursor Sales by Type

6.3 APAC High-k and CVD ALD Metal Precursor Sales by Application

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 High-k and CVD ALD Metal Precursor by Country

7.1.1 Europe High-k and CVD ALD Metal Precursor Sales by Country (2018-2023)

7.1.2 Europe High-k and CVD ALD Metal Precursor Revenue by Country (2018-2023)

7.2 Europe High-k and CVD ALD Metal Precursor Sales by Type

7.3 Europe High-k and CVD ALD Metal Precursor Sales by Application

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa High-k and CVD ALD Metal Precursor by Country

8.1.1 Middle East & Africa High-k and CVD ALD Metal Precursor Sales by Country (2018-2023)

8.1.2 Middle East & Africa High-k and CVD ALD Metal Precursor Revenue by Country (2018-2023)

8.2 Middle East & Africa High-k and CVD ALD Metal Precursor Sales by Type

8.3 Middle East & Africa High-k and CVD ALD Metal Precursor Sales by Application

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 High-k and CVD ALD Metal Precursor

10.3 Manufacturing Process Analysis of High-k and CVD ALD Metal Precursor

10.4 Industry Chain Structure of High-k and CVD ALD Metal Precursor

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 High-k and CVD ALD Metal Precursor Distributors

11.3 High-k and CVD ALD Metal Precursor Customer

12 WORLD FORECAST REVIEW FOR HIGH-K AND CVD ALD METAL PRECURSOR BY GEOGRAPHIC REGION

12.1 Global High-k and CVD ALD Metal Precursor Market Size Forecast by Region

12.1.1 Global High-k and CVD ALD Metal Precursor Forecast by Region (2024-2029)

12.1.2 Global High-k and CVD ALD Metal Precursor Annual Revenue Forecast by Region (2024-2029)

12.2 Americas Forecast by Country

12.3 APAC Forecast by Region

12.4 Europe Forecast by Country

12.5 Middle East & Africa Forecast by Country

12.6 Global High-k and CVD ALD Metal Precursor Forecast by Type

12.7 Global High-k and CVD ALD Metal Precursor Forecast by Application

13 KEY PLAYERS ANALYSIS

13.1 Air Liquide

13.1.1 Air Liquide Company Information

13.1.2 Air Liquide High-k and CVD ALD Metal Precursor Product Portfolios and Specifications

13.1.3 Air Liquide High-k and CVD ALD Metal Precursor Sales, Revenue, Price and Gross Margin (2018-2023)

13.1.4 Air Liquide Main Business Overview

13.1.5 Air Liquide Latest Developments

13.2 Merck

13.2.1 Merck Company Information

13.2.2 Merck High-k and CVD ALD Metal Precursor Product Portfolios and Specifications

13.2.3 Merck High-k and CVD ALD Metal Precursor Sales, Revenue, Price and Gross Margin (2018-2023)

- 13.2.4 Merck Main Business Overview
- 13.2.5 Merck Latest Developments
- 13.3 DNF
 - 13.3.1 DNF Company Information
 - 13.3.2 DNF High-k and CVD ALD Metal Precursor Product Portfolios and Specifications
 - 13.3.3 DNF High-k and CVD ALD Metal Precursor Sales, Revenue, Price and Gross Margin (2018-2023)
 - 13.3.4 DNF Main Business Overview
 - 13.3.5 DNF Latest Developments
- 13.4 Nanmat Technology
 - 13.4.1 Nanmat Technology Company Information
 - 13.4.2 Nanmat Technology High-k and CVD ALD Metal Precursor Product Portfolios and Specifications
 - 13.4.3 Nanmat Technology High-k and CVD ALD Metal Precursor Sales, Revenue, Price and Gross Margin (2018-2023)
 - 13.4.4 Nanmat Technology Main Business Overview
 - 13.4.5 Nanmat Technology Latest Developments
- 13.5 Adeka Corporation
 - 13.5.1 Adeka Corporation Company Information
 - 13.5.2 Adeka Corporation High-k and CVD ALD Metal Precursor Product Portfolios and Specifications
 - 13.5.3 Adeka Corporation High-k and CVD ALD Metal Precursor Sales, Revenue, Price and Gross Margin (2018-2023)
 - 13.5.4 Adeka Corporation Main Business Overview
 - 13.5.5 Adeka Corporation Latest Developments
- 13.6 Entegris, Inc.
 - 13.6.1 Entegris, Inc. Company Information
 - 13.6.2 Entegris, Inc. High-k and CVD ALD Metal Precursor Product Portfolios and Specifications
 - 13.6.3 Entegris, Inc. High-k and CVD ALD Metal Precursor Sales, Revenue, Price and Gross Margin (2018-2023)
 - 13.6.4 Entegris, Inc. Main Business Overview
 - 13.6.5 Entegris, Inc. Latest Developments
- 13.7 Strem (Ascensus Specialties)
 - 13.7.1 Strem (Ascensus Specialties) Company Information
 - 13.7.2 Strem (Ascensus Specialties) High-k and CVD ALD Metal Precursor Product Portfolios and Specifications
 - 13.7.3 Strem (Ascensus Specialties) High-k and CVD ALD Metal Precursor Sales,

Revenue, Price and Gross Margin (2018-2023)

13.7.4 Strem (Ascensus Specialties) Main Business Overview

13.7.5 Strem (Ascensus Specialties) Latest Developments

13.8 Tri Chemical Laboratories

13.8.1 Tri Chemical Laboratories Company Information

13.8.2 Tri Chemical Laboratories High-k and CVD ALD Metal Precursor Product

Portfolios and Specifications

13.8.3 Tri Chemical Laboratories High-k and CVD ALD Metal Precursor Sales, Revenue, Price and Gross Margin (2018-2023)

13.8.4 Tri Chemical Laboratories Main Business Overview

13.8.5 Tri Chemical Laboratories Latest Developments

13.9 UP Chemical (Yoke Technology)

13.9.1 UP Chemical (Yoke Technology) Company Information

13.9.2 UP Chemical (Yoke Technology) High-k and CVD ALD Metal Precursor Product

Portfolios and Specifications

13.9.3 UP Chemical (Yoke Technology) High-k and CVD ALD Metal Precursor Sales, Revenue, Price and Gross Margin (2018-2023)

13.9.4 UP Chemical (Yoke Technology) Main Business Overview

13.9.5 UP Chemical (Yoke Technology) Latest Developments

13.10 City Chemical

13.10.1 City Chemical Company Information

13.10.2 City Chemical High-k and CVD ALD Metal Precursor Product Portfolios and Specifications

13.10.3 City Chemical High-k and CVD ALD Metal Precursor Sales, Revenue, Price and Gross Margin (2018-2023)

13.10.4 City Chemical Main Business Overview

13.10.5 City Chemical Latest Developments

13.11 Soulbrain

13.11.1 Soulbrain Company Information

13.11.2 Soulbrain High-k and CVD ALD Metal Precursor Product Portfolios and Specifications

13.11.3 Soulbrain High-k and CVD ALD Metal Precursor Sales, Revenue, Price and Gross Margin (2018-2023)

13.11.4 Soulbrain Main Business Overview

13.11.5 Soulbrain Latest Developments

13.12 Hansol Chemical

13.12.1 Hansol Chemical Company Information

13.12.2 Hansol Chemical High-k and CVD ALD Metal Precursor Product Portfolios and Specifications

13.12.3 Hansol Chemical High-k and CVD ALD Metal Precursor Sales, Revenue, Price and Gross Margin (2018-2023)

13.12.4 Hansol Chemical Main Business Overview

13.12.5 Hansol Chemical Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. High-k and CVD ALD Metal Precursor Annual Sales CAGR by Geographic Region (2018, 2022 & 2029) & (\$ millions)

Table 2. High-k and CVD ALD Metal Precursor Annual Sales CAGR by Country/Region (2018, 2022 & 2029) & (\$ millions)

Table 3. Major Players of High-k Precursor

Table 4. Major Players of Metal Precursor

Table 5. Global High-k and CVD ALD Metal Precursor Sales by Type (2018-2023) & (Tons)

Table 6. Global High-k and CVD ALD Metal Precursor Sales Market Share by Type (2018-2023)

Table 7. Global High-k and CVD ALD Metal Precursor Revenue by Type (2018-2023) & (\$ million)

Table 8. Global High-k and CVD ALD Metal Precursor Revenue Market Share by Type (2018-2023)

Table 9. Global High-k and CVD ALD Metal Precursor Sale Price by Type (2018-2023) & (US\$/Ton)

Table 10. Global High-k and CVD ALD Metal Precursor Sales by Application (2018-2023) & (Tons)

Table 11. Global High-k and CVD ALD Metal Precursor Sales Market Share by Application (2018-2023)

Table 12. Global High-k and CVD ALD Metal Precursor Revenue by Application (2018-2023)

Table 13. Global High-k and CVD ALD Metal Precursor Revenue Market Share by Application (2018-2023)

Table 14. Global High-k and CVD ALD Metal Precursor Sale Price by Application (2018-2023) & (US\$/Ton)

Table 15. Global High-k and CVD ALD Metal Precursor Sales by Company (2018-2023) & (Tons)

Table 16. Global High-k and CVD ALD Metal Precursor Sales Market Share by Company (2018-2023)

Table 17. Global High-k and CVD ALD Metal Precursor Revenue by Company (2018-2023) (\$ Millions)

Table 18. Global High-k and CVD ALD Metal Precursor Revenue Market Share by Company (2018-2023)

Table 19. Global High-k and CVD ALD Metal Precursor Sale Price by Company

(2018-2023) & (US\$/Ton)

Table 20. Key Manufacturers High-k and CVD ALD Metal Precursor Producing Area Distribution and Sales Area

Table 21. Players High-k and CVD ALD Metal Precursor Products Offered

Table 22. High-k and CVD ALD Metal Precursor Concentration Ratio (CR3, CR5 and CR10) & (2018-2023)

Table 23. New Products and Potential Entrants

Table 24. Mergers & Acquisitions, Expansion

Table 25. Global High-k and CVD ALD Metal Precursor Sales by Geographic Region (2018-2023) & (Tons)

Table 26. Global High-k and CVD ALD Metal Precursor Sales Market Share Geographic Region (2018-2023)

Table 27. Global High-k and CVD ALD Metal Precursor Revenue by Geographic Region (2018-2023) & (\$ millions)

Table 28. Global High-k and CVD ALD Metal Precursor Revenue Market Share by Geographic Region (2018-2023)

Table 29. Global High-k and CVD ALD Metal Precursor Sales by Country/Region (2018-2023) & (Tons)

Table 30. Global High-k and CVD ALD Metal Precursor Sales Market Share by Country/Region (2018-2023)

Table 31. Global High-k and CVD ALD Metal Precursor Revenue by Country/Region (2018-2023) & (\$ millions)

Table 32. Global High-k and CVD ALD Metal Precursor Revenue Market Share by Country/Region (2018-2023)

Table 33. Americas High-k and CVD ALD Metal Precursor Sales by Country (2018-2023) & (Tons)

Table 34. Americas High-k and CVD ALD Metal Precursor Sales Market Share by Country (2018-2023)

Table 35. Americas High-k and CVD ALD Metal Precursor Revenue by Country (2018-2023) & (\$ Millions)

Table 36. Americas High-k and CVD ALD Metal Precursor Revenue Market Share by Country (2018-2023)

Table 37. Americas High-k and CVD ALD Metal Precursor Sales by Type (2018-2023) & (Tons)

Table 38. Americas High-k and CVD ALD Metal Precursor Sales by Application (2018-2023) & (Tons)

Table 39. APAC High-k and CVD ALD Metal Precursor Sales by Region (2018-2023) & (Tons)

Table 40. APAC High-k and CVD ALD Metal Precursor Sales Market Share by Region

(2018-2023)

Table 41. APAC High-k and CVD ALD Metal Precursor Revenue by Region

(2018-2023) & (\$ Millions)

Table 42. APAC High-k and CVD ALD Metal Precursor Revenue Market Share by Region (2018-2023)

Table 43. APAC High-k and CVD ALD Metal Precursor Sales by Type (2018-2023) & (Tons)

Table 44. APAC High-k and CVD ALD Metal Precursor Sales by Application (2018-2023) & (Tons)

Table 45. Europe High-k and CVD ALD Metal Precursor Sales by Country (2018-2023) & (Tons)

Table 46. Europe High-k and CVD ALD Metal Precursor Sales Market Share by Country (2018-2023)

Table 47. Europe High-k and CVD ALD Metal Precursor Revenue by Country (2018-2023) & (\$ Millions)

Table 48. Europe High-k and CVD ALD Metal Precursor Revenue Market Share by Country (2018-2023)

Table 49. Europe High-k and CVD ALD Metal Precursor Sales by Type (2018-2023) & (Tons)

Table 50. Europe High-k and CVD ALD Metal Precursor Sales by Application (2018-2023) & (Tons)

Table 51. Middle East & Africa High-k and CVD ALD Metal Precursor Sales by Country (2018-2023) & (Tons)

Table 52. Middle East & Africa High-k and CVD ALD Metal Precursor Sales Market Share by Country (2018-2023)

Table 53. Middle East & Africa High-k and CVD ALD Metal Precursor Revenue by Country (2018-2023) & (\$ Millions)

Table 54. Middle East & Africa High-k and CVD ALD Metal Precursor Revenue Market Share by Country (2018-2023)

Table 55. Middle East & Africa High-k and CVD ALD Metal Precursor Sales by Type (2018-2023) & (Tons)

Table 56. Middle East & Africa High-k and CVD ALD Metal Precursor Sales by Application (2018-2023) & (Tons)

Table 57. Key Market Drivers & Growth Opportunities of High-k and CVD ALD Metal Precursor

Table 58. Key Market Challenges & Risks of High-k and CVD ALD Metal Precursor

Table 59. Key Industry Trends of High-k and CVD ALD Metal Precursor

Table 60. High-k and CVD ALD Metal Precursor Raw Material

Table 61. Key Suppliers of Raw Materials

- Table 62. High-k and CVD ALD Metal Precursor Distributors List
- Table 63. High-k and CVD ALD Metal Precursor Customer List
- Table 64. Global High-k and CVD ALD Metal Precursor Sales Forecast by Region (2024-2029) & (Tons)
- Table 65. Global High-k and CVD ALD Metal Precursor Revenue Forecast by Region (2024-2029) & (\$ millions)
- Table 66. Americas High-k and CVD ALD Metal Precursor Sales Forecast by Country (2024-2029) & (Tons)
- Table 67. Americas High-k and CVD ALD Metal Precursor Revenue Forecast by Country (2024-2029) & (\$ millions)
- Table 68. APAC High-k and CVD ALD Metal Precursor Sales Forecast by Region (2024-2029) & (Tons)
- Table 69. APAC High-k and CVD ALD Metal Precursor Revenue Forecast by Region (2024-2029) & (\$ millions)
- Table 70. Europe High-k and CVD ALD Metal Precursor Sales Forecast by Country (2024-2029) & (Tons)
- Table 71. Europe High-k and CVD ALD Metal Precursor Revenue Forecast by Country (2024-2029) & (\$ millions)
- Table 72. Middle East & Africa High-k and CVD ALD Metal Precursor Sales Forecast by Country (2024-2029) & (Tons)
- Table 73. Middle East & Africa High-k and CVD ALD Metal Precursor Revenue Forecast by Country (2024-2029) & (\$ millions)
- Table 74. Global High-k and CVD ALD Metal Precursor Sales Forecast by Type (2024-2029) & (Tons)
- Table 75. Global High-k and CVD ALD Metal Precursor Revenue Forecast by Type (2024-2029) & (\$ Millions)
- Table 76. Global High-k and CVD ALD Metal Precursor Sales Forecast by Application (2024-2029) & (Tons)
- Table 77. Global High-k and CVD ALD Metal Precursor Revenue Forecast by Application (2024-2029) & (\$ Millions)
- Table 78. Air Liquide Basic Information, High-k and CVD ALD Metal Precursor Manufacturing Base, Sales Area and Its Competitors
- Table 79. Air Liquide High-k and CVD ALD Metal Precursor Product Portfolios and Specifications
- Table 80. Air Liquide High-k and CVD ALD Metal Precursor Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)
- Table 81. Air Liquide Main Business
- Table 82. Air Liquide Latest Developments
- Table 83. Merck Basic Information, High-k and CVD ALD Metal Precursor

Manufacturing Base, Sales Area and Its Competitors

Table 84. Merck High-k and CVD ALD Metal Precursor Product Portfolios and Specifications

Table 85. Merck High-k and CVD ALD Metal Precursor Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)

Table 86. Merck Main Business

Table 87. Merck Latest Developments

Table 88. DNF Basic Information, High-k and CVD ALD Metal Precursor Manufacturing Base, Sales Area and Its Competitors

Table 89. DNF High-k and CVD ALD Metal Precursor Product Portfolios and Specifications

Table 90. DNF High-k and CVD ALD Metal Precursor Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)

Table 91. DNF Main Business

Table 92. DNF Latest Developments

Table 93. Nanmat Technology Basic Information, High-k and CVD ALD Metal Precursor Manufacturing Base, Sales Area and Its Competitors

Table 94. Nanmat Technology High-k and CVD ALD Metal Precursor Product Portfolios and Specifications

Table 95. Nanmat Technology High-k and CVD ALD Metal Precursor Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)

Table 96. Nanmat Technology Main Business

Table 97. Nanmat Technology Latest Developments

Table 98. Adeka Corporation Basic Information, High-k and CVD ALD Metal Precursor Manufacturing Base, Sales Area and Its Competitors

Table 99. Adeka Corporation High-k and CVD ALD Metal Precursor Product Portfolios and Specifications

Table 100. Adeka Corporation High-k and CVD ALD Metal Precursor Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)

Table 101. Adeka Corporation Main Business

Table 102. Adeka Corporation Latest Developments

Table 103. Entegris, Inc. Basic Information, High-k and CVD ALD Metal Precursor Manufacturing Base, Sales Area and Its Competitors

Table 104. Entegris, Inc. High-k and CVD ALD Metal Precursor Product Portfolios and Specifications

Table 105. Entegris, Inc. High-k and CVD ALD Metal Precursor Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)

Table 106. Entegris, Inc. Main Business

Table 107. Entegris, Inc. Latest Developments

Table 108. Strem (Ascensus Specialties) Basic Information, High-k and CVD ALD Metal Precursor Manufacturing Base, Sales Area and Its Competitors

Table 109. Strem (Ascensus Specialties) High-k and CVD ALD Metal Precursor Product Portfolios and Specifications

Table 110. Strem (Ascensus Specialties) High-k and CVD ALD Metal Precursor Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)

Table 111. Strem (Ascensus Specialties) Main Business

Table 112. Strem (Ascensus Specialties) Latest Developments

Table 113. Tri Chemical Laboratories Basic Information, High-k and CVD ALD Metal Precursor Manufacturing Base, Sales Area and Its Competitors

Table 114. Tri Chemical Laboratories High-k and CVD ALD Metal Precursor Product Portfolios and Specifications

Table 115. Tri Chemical Laboratories High-k and CVD ALD Metal Precursor Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)

Table 116. Tri Chemical Laboratories Main Business

Table 117. Tri Chemical Laboratories Latest Developments

Table 118. UP Chemical (Yoke Technology) Basic Information, High-k and CVD ALD Metal Precursor Manufacturing Base, Sales Area and Its Competitors

Table 119. UP Chemical (Yoke Technology) High-k and CVD ALD Metal Precursor Product Portfolios and Specifications

Table 120. UP Chemical (Yoke Technology) High-k and CVD ALD Metal Precursor Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)

Table 121. UP Chemical (Yoke Technology) Main Business

Table 122. UP Chemical (Yoke Technology) Latest Developments

Table 123. City Chemical Basic Information, High-k and CVD ALD Metal Precursor Manufacturing Base, Sales Area and Its Competitors

Table 124. City Chemical High-k and CVD ALD Metal Precursor Product Portfolios and Specifications

Table 125. City Chemical High-k and CVD ALD Metal Precursor Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)

Table 126. City Chemical Main Business

Table 127. City Chemical Latest Developments

Table 128. Soulbrain Basic Information, High-k and CVD ALD Metal Precursor Manufacturing Base, Sales Area and Its Competitors

Table 129. Soulbrain High-k and CVD ALD Metal Precursor Product Portfolios and Specifications

Table 130. Soulbrain High-k and CVD ALD Metal Precursor Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)

Table 131. Soulbrain Main Business

Table 132. Soulbrain Latest Developments

Table 133. Hansol Chemical Basic Information, High-k and CVD ALD Metal Precursor Manufacturing Base, Sales Area and Its Competitors

Table 134. Hansol Chemical High-k and CVD ALD Metal Precursor Product Portfolios and Specifications

Table 135. Hansol Chemical High-k and CVD ALD Metal Precursor Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)

Table 136. Hansol Chemical Main Business

Table 137. Hansol Chemical Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of High-k and CVD ALD Metal Precursor
- Figure 2. High-k and CVD ALD Metal Precursor Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global High-k and CVD ALD Metal Precursor Sales Growth Rate 2018-2029 (Tons)
- Figure 7. Global High-k and CVD ALD Metal Precursor Revenue Growth Rate 2018-2029 (\$ Millions)
- Figure 8. High-k and CVD ALD Metal Precursor Sales by Region (2018, 2022 & 2029) & (\$ Millions)
- Figure 9. Product Picture of High-k Precursor
- Figure 10. Product Picture of Metal Precursor
- Figure 11. Global High-k and CVD ALD Metal Precursor Sales Market Share by Type in 2022
- Figure 12. Global High-k and CVD ALD Metal Precursor Revenue Market Share by Type (2018-2023)
- Figure 13. High-k and CVD ALD Metal Precursor Consumed in Gates Manufacturing
- Figure 14. Global High-k and CVD ALD Metal Precursor Market: Gates Manufacturing (2018-2023) & (Tons)
- Figure 15. High-k and CVD ALD Metal Precursor Consumed in Capacitors Manufacturing
- Figure 16. Global High-k and CVD ALD Metal Precursor Market: Capacitors Manufacturing (2018-2023) & (Tons)
- Figure 17. High-k and CVD ALD Metal Precursor Consumed in Electrodes Manufacturing
- Figure 18. Global High-k and CVD ALD Metal Precursor Market: Electrodes Manufacturing (2018-2023) & (Tons)
- Figure 19. High-k and CVD ALD Metal Precursor Consumed in Interconnects Manufacturing
- Figure 20. Global High-k and CVD ALD Metal Precursor Market: Interconnects Manufacturing (2018-2023) & (Tons)
- Figure 21. High-k and CVD ALD Metal Precursor Consumed in Others
- Figure 22. Global High-k and CVD ALD Metal Precursor Market: Others (2018-2023) & (Tons)

Figure 23. Global High-k and CVD ALD Metal Precursor Sales Market Share by Application (2022)

Figure 24. Global High-k and CVD ALD Metal Precursor Revenue Market Share by Application in 2022

Figure 25. High-k and CVD ALD Metal Precursor Sales Market by Company in 2022 (Tons)

Figure 26. Global High-k and CVD ALD Metal Precursor Sales Market Share by Company in 2022

Figure 27. High-k and CVD ALD Metal Precursor Revenue Market by Company in 2022 (\$ Million)

Figure 28. Global High-k and CVD ALD Metal Precursor Revenue Market Share by Company in 2022

Figure 29. Global High-k and CVD ALD Metal Precursor Sales Market Share by Geographic Region (2018-2023)

Figure 30. Global High-k and CVD ALD Metal Precursor Revenue Market Share by Geographic Region in 2022

Figure 31. Americas High-k and CVD ALD Metal Precursor Sales 2018-2023 (Tons)

Figure 32. Americas High-k and CVD ALD Metal Precursor Revenue 2018-2023 (\$ Millions)

Figure 33. APAC High-k and CVD ALD Metal Precursor Sales 2018-2023 (Tons)

Figure 34. APAC High-k and CVD ALD Metal Precursor Revenue 2018-2023 (\$ Millions)

Figure 35. Europe High-k and CVD ALD Metal Precursor Sales 2018-2023 (Tons)

Figure 36. Europe High-k and CVD ALD Metal Precursor Revenue 2018-2023 (\$ Millions)

Figure 37. Middle East & Africa High-k and CVD ALD Metal Precursor Sales 2018-2023 (Tons)

Figure 38. Middle East & Africa High-k and CVD ALD Metal Precursor Revenue 2018-2023 (\$ Millions)

Figure 39. Americas High-k and CVD ALD Metal Precursor Sales Market Share by Country in 2022

Figure 40. Americas High-k and CVD ALD Metal Precursor Revenue Market Share by Country in 2022

Figure 41. Americas High-k and CVD ALD Metal Precursor Sales Market Share by Type (2018-2023)

Figure 42. Americas High-k and CVD ALD Metal Precursor Sales Market Share by Application (2018-2023)

Figure 43. United States High-k and CVD ALD Metal Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 44. Canada High-k and CVD ALD Metal Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 45. Mexico High-k and CVD ALD Metal Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 46. Brazil High-k and CVD ALD Metal Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 47. APAC High-k and CVD ALD Metal Precursor Sales Market Share by Region in 2022

Figure 48. APAC High-k and CVD ALD Metal Precursor Revenue Market Share by Regions in 2022

Figure 49. APAC High-k and CVD ALD Metal Precursor Sales Market Share by Type (2018-2023)

Figure 50. APAC High-k and CVD ALD Metal Precursor Sales Market Share by Application (2018-2023)

Figure 51. China High-k and CVD ALD Metal Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 52. Japan High-k and CVD ALD Metal Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 53. South Korea High-k and CVD ALD Metal Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 54. Southeast Asia High-k and CVD ALD Metal Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 55. India High-k and CVD ALD Metal Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 56. Australia High-k and CVD ALD Metal Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 57. China Taiwan High-k and CVD ALD Metal Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 58. Europe High-k and CVD ALD Metal Precursor Sales Market Share by Country in 2022

Figure 59. Europe High-k and CVD ALD Metal Precursor Revenue Market Share by Country in 2022

Figure 60. Europe High-k and CVD ALD Metal Precursor Sales Market Share by Type (2018-2023)

Figure 61. Europe High-k and CVD ALD Metal Precursor Sales Market Share by Application (2018-2023)

Figure 62. Germany High-k and CVD ALD Metal Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 63. France High-k and CVD ALD Metal Precursor Revenue Growth 2018-2023 (\$

Millions)

Figure 64. UK High-k and CVD ALD Metal Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 65. Italy High-k and CVD ALD Metal Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 66. Russia High-k and CVD ALD Metal Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 67. Middle East & Africa High-k and CVD ALD Metal Precursor Sales Market Share by Country in 2022

Figure 68. Middle East & Africa High-k and CVD ALD Metal Precursor Revenue Market Share by Country in 2022

Figure 69. Middle East & Africa High-k and CVD ALD Metal Precursor Sales Market Share by Type (2018-2023)

Figure 70. Middle East & Africa High-k and CVD ALD Metal Precursor Sales Market Share by Application (2018-2023)

Figure 71. Egypt High-k and CVD ALD Metal Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 72. South Africa High-k and CVD ALD Metal Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 73. Israel High-k and CVD ALD Metal Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 74. Turkey High-k and CVD ALD Metal Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 75. GCC Country High-k and CVD ALD Metal Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 76. Manufacturing Cost Structure Analysis of High-k and CVD ALD Metal Precursor in 2022

Figure 77. Manufacturing Process Analysis of High-k and CVD ALD Metal Precursor

Figure 78. Industry Chain Structure of High-k and CVD ALD Metal Precursor

Figure 79. Channels of Distribution

Figure 80. Global High-k and CVD ALD Metal Precursor Sales Market Forecast by Region (2024-2029)

Figure 81. Global High-k and CVD ALD Metal Precursor Revenue Market Share Forecast by Region (2024-2029)

Figure 82. Global High-k and CVD ALD Metal Precursor Sales Market Share Forecast by Type (2024-2029)

Figure 83. Global High-k and CVD ALD Metal Precursor Revenue Market Share Forecast by Type (2024-2029)

Figure 84. Global High-k and CVD ALD Metal Precursor Sales Market Share Forecast

by Application (2024-2029)

Figure 85. Global High-k and CVD ALD Metal Precursor Revenue Market Share
Forecast by Application (2024-2029)

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