

High-k And CVD ALD Metal Precursors Market Size, Share & Trends Analysis Report By Technology (Interconnect, Capacitors, Gates), By Region (North America, APAC), And Segment Forecasts, 2023 - 2030

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Abstracts

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High-k And CVD ALD Metal Precursors Market Growth & Trends

The global high-k and CVD ALD metal precursors market size is expected to reach USD 857.8 million by 2030, according to a new study by Grand View Research Inc. The market is expected to expand at a CAGR of 6.5% from 2023 to 2030. The demand for thin film deposition with a low thermal budget, more accuracy in thickness control, and better conformance over three-dimensional (3D) structures is increasing as semiconductor device technology advances. The market is primarily driven by the rising demand for a variety of thin-film materials for various industrial applications and the emergence of atomic layer deposition of noble elements including rhodium, iridium, palladium, and platinum.

The industry is further expanding to a higher extent due to the trend of miniaturizing semiconductors as well as electronic gadgets and the growing requirement to improve performance. Another major factor propelling the industry expansion is the growing use of semiconductors and microelectronic devices in a variety of industry verticals, including automotive, aerospace, industrial, and consumer goods. In addition, improvements in deposition methods, rising consumer demand for higher deposition speeds, and increased commercialization of High-k and CVD ALD procedures are some of the main drivers of the industry.

The COVID-19 pandemic has caused a significant decline in many businesses, including the need for materials. The global economic downturn, supply-chain constraints, a lack of semiconductor chips, and export/import restrictions have all been overcome. However, given the considerable pent-up demand and anticipated recovery in industry demand brought on by the opening of economies and a rise in consumer spending power, the short-term forecast for the high-k and CVD ALD metal precursors sector appears positive. Asia Pacific accounted for a sizable portion of the global industry and is also credited with having experienced the quickest growth in the global market, which was fueled by the explosive rise of electronic devices and fueled product demand.

High-k And CVD ALD Metal Precursors Market Report Highlights

The interconnect segment accounted for the largest share of the overall revenue in 2022 and is expected to remain dominant throughout the forecast period

Asia Pacific was the dominant regional market in 2022 and is projected to expand further at the fastest growth rate over the forecast period

This growth can be attributed to the high demand for high-k and ALD/CVD metal precursors and the rapid expansion of the electronics industry in China, India, and other Southeast Asian countries

The world's center for semiconductor production is located in important Asian economies like China, South Korea, and Taiwan, which contributes to the region's dominance

Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Methodology Segmentation & Scope
- 1.2. Information Procurement
 - 1.2.1. Purchased database
 - 1.2.2. GVR's internal database
 - 1.2.3. Secondary sources & third-party perspectives
 - 1.2.4. Primary research
- 1.3. Information Analysis
 - 1.3.1. Data analysis models
- 1.4. Market Formulation & Data Visualization
- 1.5. Data Validation & Publishing

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. High-k And CVD ALD Metal Precursors Market - Industry Snapshot, 2018 - 2030

CHAPTER 3. HIGH-K AND CVD ALD METAL PRECURSORS MARKET VARIABLES, TRENDS & SCOPE

- 3.1. Market Size and Growth Prospects, 2018 - 2030
- 3.2. Industry Value Chain Analysis
- 3.3. Market Dynamics
 - 3.3.1. Market Driver Analysis
 - 3.3.2. Market Restraint/Challenge Analysis
 - 3.3.3. Market Opportunity Analysis
- 3.4. Penetration & Growth Prospect Mapping (Key Opportunities Prioritized)
- 3.5. Business Environment Analysis Tools
 - 3.5.1. Industry Analysis - Porter's Five Forces Analysis
 - 3.5.2. PEST Analysis
 - 3.5.3. COVID-19 Impact Analysis

CHAPTER 4. HIGH-K AND CVD ALD METAL PRECURSORS MARKET: TECHNOLOGY OUTLOOK

- 4.1. Market Size Estimates & Forecasts and Trend Analysis, 2018 - 2030 (Revenue, USD Million)

4.2. Interconnect

4.2.1. Market estimates and forecasts by region, 2018 - 2030 (Revenue, USD Million)

4.3. Capacitors

4.3.1. Market estimates and forecasts by region, 2018 - 2030 (Revenue, USD Million)

4.4. Gates

4.4.1. Market estimates and forecasts by region, 2018 - 2030 (Revenue, USD Million)

CHAPTER 5. HIGH-K AND CVD ALD METAL PRECURSORS MARKET: REGIONAL OUTLOOK

5.1. High-k and CVD ALD Metal Precursors Market, By Region, 2020 & 2030

5.2. North America

5.2.1. Market estimates and forecasts by technology, 2018 - 2030 (Revenue, USD Million)

5.2.2. U.S.

5.2.2.1. Market estimates and forecasts by technology, 2018 - 2030 (Revenue, USD Million)

5.2.3. Canada

5.2.3.1. Market estimates and forecasts by technology, 2018 - 2030 (Revenue, USD Million)

5.3. Europe

5.3.1. Market estimates and forecasts by technology, 2018 - 2030 (Revenue, USD Million)

5.3.2. U.K.

5.3.2.1. Market estimates and forecasts by technology, 2018 - 2030 (Revenue, USD Million)

5.3.3. Germany

5.3.3.1. Market estimates and forecasts by technology, 2018 - 2030 (Revenue, USD Million)

5.3.4. Rest of Europe

5.3.4.1. Market estimates and forecasts by technology, 2018 - 2030 (Revenue, USD Million)

5.4. Asia Pacific

5.4.1. Market estimates and forecasts by technology, 2018 - 2030 (Revenue, USD Million)

5.4.2. China

5.4.2.1. Market estimates and forecasts by technology, 2018 - 2030 (Revenue, USD Million)

5.4.3. India

5.4.3.1. Market estimates and forecasts by technology, 2018 - 2030 (Revenue, USD Million)

5.4.4. Japan

5.4.4.1. Market estimates and forecasts by technology, 2018 - 2030 (Revenue, USD Million)

5.4.5. Rest of Asia Pacific

5.4.5.1. Market estimates and forecasts by technology, 2018 - 2030 (Revenue, USD Million)

5.5. Latin America

5.5.1. Market estimates and forecasts by technology, 2018 - 2030 (Revenue, USD Million)

5.5.2. Brazil

5.5.2.1. Market estimates and forecasts by technology, 2018 - 2030 (Revenue, USD Million)

5.5.3. Mexico

5.5.3.1. Market estimates and forecasts by technology, 2018 - 2030 (Revenue, USD Million)

5.5.4. Rest of Latin America

5.5.4.1. Market estimates and forecasts by technology, 2018 - 2030 (Revenue, USD Million)

5.6. Middle East & Africa

5.6.1. Market estimates and forecasts by technology, 2018 - 2030 (Revenue, USD Million)

CHAPTER 6. COMPETITIVE LANDSCAPE

6.1. Air Liquide

6.1.1. Company overview

6.1.2. Financial performance

6.1.3. Product benchmarking

6.1.4. Recent developments

6.2. Adeka Corporation

6.2.1. Company overview

6.2.2. Product benchmarking

6.2.3. Recent developments

6.3. Air Product & Chemicals, Inc.

6.3.1. Company overview

6.3.2. Financial performance

6.3.3. Product benchmarking

- 6.3.4. Recent developments
- 6.4. Colnatec
 - 6.4.1. Company overview
 - 6.4.2. Financial performance
 - 6.4.3. Product benchmarking
 - 6.4.4. Recent developments
- 6.5. Dow Chemical
 - 6.5.1. Company overview
 - 6.5.2. Financial performance
 - 6.5.3. Product benchmarking
 - 6.5.4. Recent developments
- 6.6. Linde
 - 6.6.1. Company overview
 - 6.6.2. Financial performance
 - 6.6.3. Product benchmarking
 - 6.6.4. Recent developments
- 6.7. Merck KGAA
 - 6.7.1. Company overview
 - 6.7.2. Financial performance
 - 6.7.3. Product benchmarking
 - 6.7.4. Recent developments
- 6.8. Nanmat Technology Co. Ltd.
 - 6.8.1. Company overview
 - 6.8.2. Financial performance
 - 6.8.3. Product benchmarking
 - 6.8.4. Recent developments
- 6.9. Praxair
 - 6.9.1. Company overview
 - 6.9.2. Financial performance
 - 6.9.3. Product benchmarking
 - 6.9.4. Recent developments
- 6.10. Samsung
 - 6.10.1. Company overview
 - 6.10.2. Financial performance
 - 6.10.3. Product benchmarking
 - 6.10.4. Recent developments
- 6.11. Strem Chemicals, Inc.
 - 6.11.1. Company overview
 - 6.11.2. Financial performance

6.11.3. Product benchmarking

6.11.4. Recent developments

6.12. Tri Chemical Laboratories Inc.

6.12.1. Company overview

6.12.2. Financial performance

6.12.3. Product benchmarking

6.12.4. Recent developments

List Of Tables

LIST OF TABLES

Table 1 Key company ranking analysis, 2022

Table 2 Solutions offered by key market players

Table 3 Interconnect market, by region, 2018 - 2030 (USD Million)

Table 4 Capacitors market, by region, 2018 - 2030 (USD Million)

Table 5 Gates market, by region, 2018 - 2030 (USD Million)

Table 6 North America high-k and CVD ALD metal precursors market, by technology, 2018 - 2030 (USD Million)

Table 7 U.S. high-k and CVD ALD metal precursors market, by technology, 2018 - 2030 (USD Million)

Table 8 Canada high-k and CVD ALD metal precursors market, by technology, 2018 - 2030 (USD Million)

Table 9 Europe high-k and CVD ALD metal precursors market, by technology, 2018 - 2030 (USD Million)

Table 10 U.K. high-k and CVD ALD metal precursors market, by technology, 2018 - 2030 (USD Million)

Table 11 Germany high-k and CVD ALD metal precursors market, by technology, 2018 - 2030 (USD Million)

Table 12 Rest of Europe high-k and CVD ALD metal precursors market, by technology, 2018 - 2030 (USD Million)

Table 13 Asia Pacific high-k and CVD ALD metal precursors market, by technology, 2018 - 2030 (USD Million)

Table 14 China high-k and CVD ALD metal precursors market, by technology, 2018 - 2030 (USD Million)

Table 15 India high-k and CVD ALD metal precursors market, by technology, 2018 - 2030 (USD Million)

Table 16 Japan high-k and CVD ALD metal precursors market, by technology, 2018 - 2030 (USD Million)

Table 17 Rest of Asia Pacific high-k and CVD ALD metal precursors market, by technology, 2018 - 2030 (USD Million)

Table 18 Latin America high-k and CVD ALD metal precursors market, by technology, 2018 - 2030 (USD Million)

Table 19 Brazil high-k and CVD ALD metal precursors market, by technology, 2018 - 2030 (USD Million)

Table 20 Mexico high-k and CVD ALD metal precursors market, by technology, 2018 - 2030 (USD Million)

Table 21 Rest of Latin America high-k and CVD ALD metal precursors market, by technology, 2018 - 2030 (USD Million)

Table 22 Middle East & Africa high-k and CVD ALD metal precursors market, by technology, 2018 - 2030 (USD Million)

List Of Figures

LIST OF FIGURES

- Fig. 1 High-k and CVD ALD metal precursors market segmentation
- Fig. 2 Market research process
- Fig. 3 Primary research process
- Fig. 4 Information Analysis
- Fig. 5 Data validation and publishing
- Fig. 6 High-k and CVD ALD metal precursors market snapshot
- Fig. 7 High-k and CVD ALD metal precursors market value chain analysis
- Fig. 8 Penetration and growth prospect mapping
- Fig. 9 High-k and CVD ALD metal precursors market: Porter's five forces analysis
- Fig. 10 High-k and CVD ALD metal precursors market: PEST analysis
- Fig. 11 High-k and CVD ALD metal precursors market: By technology segment outlook & market share, 2022 & 2030
- Fig. 12 High-k and CVD ALD metal precursors market: By region segment outlook & market share, 2022 & 2030
- Fig. 13 North America high-k and CVD ALD metal precursors market: key takeaways
- Fig. 14 Europe high-k and CVD ALD metal precursors market: key takeaways
- Fig. 15 Asia Pacific high-k and CVD ALD metal precursors market: key takeaways
- Fig. 16 Latin America high-k and CVD ALD metal precursors market: key takeaways
- Fig. 17 MEA high-k and CVD ALD metal precursors market: key takeaways

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