

High-k and CVD ALD Metal Precursor Market, Global Outlook and Forecast 2022-2028

<https://marketpublishers.com/r/H98C3E1E7A3CEN.html>

Date: May 2022

Pages: 76

Price: US\$ 3,250.00 (Single User License)

ID: H98C3E1E7A3CEN

Abstracts

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.

This report contains market size and forecasts of High-k and CVD ALD Metal Precursor in global, including the following market information:

Global High-k and CVD ALD Metal Precursor Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global High-k and CVD ALD Metal Precursor Market Sales, 2017-2022, 2023-2028,

(Tons)

Global top five High-k and CVD ALD Metal Precursor companies in 2021 (%)

The global High-k and CVD ALD Metal Precursor market was valued at million in 2021 and is projected to reach US\$ million by 2028, at a CAGR of % during the forecast period 2022-2028.

The U.S. Market is Estimated at \$ Million in 2021, While China is Forecast to Reach \$ Million by 2028.

High-k Precursor Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of High-k and CVD ALD Metal Precursor include Air Liquide, Merck, DNF, Nanmat Technology, Adeka Corporation, Entegris, Inc., Strem (Ascensus Specialties), Tri Chemical Laboratories and UP Chemical (Yoke Technology), etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the High-k and CVD ALD Metal Precursor manufacturers, suppliers, distributors and industry experts on this industry, involving the sales, revenue, demand, price change, product type, recent development and plan, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global High-k and CVD ALD Metal Precursor Market, by Type, 2017-2022, 2023-2028 (\$ Millions) & (Tons)

Global High-k and CVD ALD Metal Precursor Market Segment Percentages, by Type, 2021 (%)

High-k Precursor

Metal Precursor

Global High-k and CVD ALD Metal Precursor Market, by Application, 2017-2022, 2023-2028 (\$ Millions) & (Tons)

Global High-k and CVD ALD Metal Precursor Market Segment Percentages, by Application, 2021 (%)

Gates Manufacturing

Capacitors Manufacturing

Electrodes Manufacturing

Interconnects Manufacturing

Others

Global High-k and CVD ALD Metal Precursor Market, By Region and Country, 2017-2022, 2023-2028 (\$ Millions) & (Tons)

Global High-k and CVD ALD Metal Precursor Market Segment Percentages, By Region and Country, 2021 (%)

North America

US

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Nordic Countries

Benelux

Rest of Europe

Asia

China

Japan

South Korea

Southeast Asia

India

Rest of Asia

South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Turkey

Israel

Saudi Arabia

UAE

Rest of Middle East & Africa

Competitor Analysis

The report also provides analysis of leading market participants including:

Key companies High-k and CVD ALD Metal Precursor revenues in global market, 2017-2022 (Estimated), (\$ millions)

Key companies High-k and CVD ALD Metal Precursor revenues share in global market, 2021 (%)

Key companies High-k and CVD ALD Metal Precursor sales in global market, 2017-2022 (Estimated), (Tons)

Key companies High-k and CVD ALD Metal Precursor sales share in global market, 2021 (%)

Further, the report presents profiles of competitors in the market, key players include:

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

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