

Global High-Purity ALD-CVD Precursors Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global High-Purity ALD-CVD Precursors market size was valued at US\$ 1891 million in 2025 and is forecast to a readjusted size of US\$ 3385 million by 2032 with a CAGR of 8.6% during review period.

High-purity ALD/CVD precursors are electronic-grade chemical source materials used in atomic layer deposition and chemical vapor deposition. Under controlled temperature and pressure, they enter the reaction chamber in the vapor phase and form metal, oxide, nitride, silicon-based dielectric, and other functional films on wafers or other substrates. Major products include organometallic compounds, metal halides, metal amides, hydrides, and other volatile inorganic compounds. Typical requirements include 4N to above 6N purity, ppb-to-ppt control of critical impurities, stable vapor pressure, suitable thermal stability, batch consistency, and coordinated qualification with dedicated containers, delivery systems, and customer process windows. The blended gross margin is approximately 48%.

Advanced logic is moving toward gate-all-around structures, backside power delivery, and more complex interconnects, while high-aspect-ratio DRAM capacitors, higher-layer 3D NAND, HBM capacity expansion, and advanced packaging are adding more thin-film deposition steps. Critical dielectric, barrier, interconnect, and electrode films require tighter atomic-scale thickness control and conformal coverage of three-dimensional structures, increasing precursor variety, consumption per wafer, and qualification activity.

Competition is shifting from nominal purity toward complete metallic and nonmetallic impurity profiles, vapor pressure, thermal decomposition windows, residual carbon and

halogens, film growth rates, and lot-to-lot consistency. Solid precursor delivery, low-temperature deposition, area-selective deposition, and new ruthenium, molybdenum, cobalt, hafnium, and zirconium chemistries are being developed more rapidly. Suppliers are also expected to support container cleaning, filling, recovery, and delivery solutions and to complete long qualification cycles on customer equipment and process platforms.

International suppliers retain advantages in molecular design, purification, scale manufacturing, and accumulated qualification data, while East Asian suppliers are gaining entry through local foundry and memory expansion. Opportunities center on advanced-node material upgrades, memory capacity additions, compound semiconductors, and local substitution. Major risks include long qualification cycles, process confidentiality, patent constraints, critical raw-material volatility, hazardous-material transport regulation, and substitution caused by new deposition routes.

Report Scope

This report is a detailed and comprehensive analysis for global High-Purity ALD-CVD Precursors 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 High-Purity ALD-CVD Precursors market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global High-Purity ALD-CVD Precursors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global High-Purity ALD-CVD Precursors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global High-Purity ALD-CVD Precursors market shares of main players, shipments in

revenue (\$ Million), sales quantity (kg), and ASP (US\$/kg), 2021-2026

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 High-Purity ALD-CVD Precursors

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global High-Purity ALD-CVD Precursors 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 Air Liquide, Merck, Entegris, ADEKA, Tri Chemical Laboratories, Kojundo Chemical Laboratory, TANAKA Precious Metals, Umicore, Soulbrain, SK Trichem, etc.

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

Market Segmentation

High-Purity ALD-CVD Precursors market is split by Type and by Application. For the period 2021-2032, 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

ALD-Only Precursors

CVD-Only Precursors

Dual-Use ALD/CVD Precursors

Market segment by Precursor Chemistry

Organometallic Precursors

Metal Halide Precursors

Metal Amide and Imide Precursors

Hydride Precursors

Other Inorganic Precursors

Market segment by Physical State

Gaseous Precursors

Liquid Precursors

Solid Precursors

Market segment by Purity Grade

4N to Below 5N

5N to Below 6N

6N and Above

Market segment by Application

Logic and Foundry Devices

Memory Devices

Power and Compound Semiconductors

Displays and Optoelectronics

Photovoltaic Cells

Other Electronic Devices

Major players covered

Air Liquide

Merck

Entegris

ADEKA

Tri Chemical Laboratories

Kojundo Chemical Laboratory

TANAKA Precious Metals

Umicore

Soulbrain

SK Trichem

SK Specialty

DNF

Lake Materials

EpiValence

Gelest

Ascensus Specialties

Nata Opto-Electronic Materials

Jiangsu Yoke Technology

Nouryon

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)

Chapter Outline

Chapter 1, to describe High-Purity ALD-CVD Precursors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High-Purity ALD-CVD Precursors, with price, sales quantity, revenue, and global market share of High-Purity ALD-CVD Precursors from 2021 to 2026.

Chapter 3, the High-Purity ALD-CVD Precursors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High-Purity ALD-CVD Precursors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and High-Purity ALD-CVD Precursors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 High-Purity ALD-CVD Precursors.

Chapter 14 and 15, to describe High-Purity ALD-CVD Precursors sales channel, distributors, customers, research findings and conclusion.

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