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Global ALD and CVD Precursors for Semiconductor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global ALD and CVD Precursors for Semiconductor market size is expected to reach $ 4168 million by 2032, rising at a market growth of 7.7% CAGR during the forecast period (2026-2032).
Semiconductor CVD/ALD precursors are high-purity compounds capable of vaporisation at specific temperatures and pressures, undergoing chemical reactions on wafer surfaces to deposit thin films. As core materials for CVD (chemical vapour deposition) and ALD (atomic layer deposition) processes, they directly determine the composition, uniformity, density, and electrical properties of the resulting films. These precursors are extensively utilised in logic/memory chips, advanced packaging, MEMS, and other fields.
Global sales of semiconductor CVD and ALD precursors reached 4,119.06 tonnes in 2025, with an average price of US$570 per kilogram.
Market DriversSemiconductor
Industry Growth: The rapid development of technologies such as 5G, AI, and IoT is driving the demand for high-performance semiconductors, which in turn is increasing the demand for CVD and ALD precursors.
Advanced process demand: As process nodes move towards 7nm, 5nm and below, demand for high purity, high performance precursors increases.
Emerging applications: Expansion in memory (e.g., 3D NAND), logic devices, and MEMS is driving market growth.
Material Technology Advancement: Development of new precursor materials has improved the quality and efficiency of thin film deposition.
Environmental regulations: Increasing demand for environmentally friendly precursor materials is driving the market towards green chemistry.
Market Challenges
High Purity Requirements: Semiconductor manufacturing requires extremely high

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precursor purity, increasing the difficulty of production and purification.
High technological threshold: R&D and production of precursors require high technological level, restricting new entrants.
Raw material price fluctuations: some precursor raw material price fluctuations affect production costs and market prices.
Market Trends
Increasing Demand for High Purity Precursors: As process nodes shrink, the demand for high purity precursors continues to increase.
New precursor development: New precursors for specific applications (e.g., high dielectric constant materials, metal gates) are emerging.
Environmentally friendly precursors: Environmentally friendly precursors such as halogen-free and low-toxicity precursors are becoming a trend.
Customised demand: Semiconductor manufacturers' demand for customised precursors has increased, driving suppliers to provide personalised solutions.
Regionalised production: In order to reduce supply chain risks, precursor production is gradually developing in the direction of regionalisation and localisation.
Regional market analysis
Asia Pacific: Semiconductor manufacturing is concentrated, especially in China, South Korea and Taiwan, with the highest market demand.
North America: technological innovation and high-end manufacturing to drive market demand.
Europe: Strong demand in automotive electronics and industrial electronics.
Other regions: the market is in the development stage with high potential.
Future OutlookWith
the continuous development and technological progress of the semiconductor industry, the market for precursors for CVD and ALD will maintain rapid growth. High purity, environmentally friendly precursors and customised solutions will become the main direction of future development.
Semiconductor CVD and ALD precursor market prospects, technological progress and industry demand is the main driving force. In the future, high purity, environmentally friendly precursors and customised solutions will become the mainstream of the market.
This report studies the global ALD and CVD Precursors for Semiconductor production, demand, key manufacturers, and key regions.
This report is a detailed and comprehensive analysis of the world market for ALD and CVD Precursors for Semiconductor and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of ALD and CVD Precursors for Semiconductor that contribute to its increasing demand across many markets.

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Highlights and key features of the study

Global ALD and CVD Precursors for Semiconductor total production and demand, 2021-2032, (Tons)

Global ALD and CVD Precursors for Semiconductor total production value, 2021-2032, (USD Million)

Global ALD and CVD Precursors for Semiconductor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global ALD and CVD Precursors for Semiconductor consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: ALD and CVD Precursors for Semiconductor domestic production, consumption, key domestic manufacturers and share

Global ALD and CVD Precursors for Semiconductor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global ALD and CVD Precursors for Semiconductor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global ALD and CVD Precursors for Semiconductor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global ALD and CVD Precursors for Semiconductor market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Merck, Air Liquide, SK Material, Lake Materials, DNF, Yoke (UP Chemical), Soulbrain, Hansol Chemical, ADEKA, Dupont, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World ALD and CVD Precursors for Semiconductor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Tons) and average price (US$/kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global ALD and CVD Precursors for Semiconductor Market, By Region:

United States

China

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Europe

Japan

South Korea

ASEAN

India

Rest of World

Global ALD and CVD Precursors for Semiconductor Market, Segmentation by Type:

Silicon Precursor

Titanium Precursor

Zirconium Precursor

Others

Global ALD and CVD Precursors for Semiconductor Market, Segmentation by Chemical Structure:

Metal-organic Precursors

Inorganic Precursors

Other

Global ALD and CVD Precursors for Semiconductor Market, Segmentation by Sales Channels:

Direct Sales

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Distribution

Global ALD and CVD Precursors for Semiconductor Market, Segmentation by Application:

Integrated Circuit Chip

Flat Panel Display

Solar Photovoltaic

Others

Companies Profiled:

Merck

Air Liquide

SK Material

Lake Materials

DNF

Yoke (UP Chemical)

Soulbrain

Hansol Chemical

ADEKA

Dupont

Nanmat

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Engtegris

TANAKA

Botai

Strem Chemicals

Nata Chem

Gelest

Adchem-tech

FUJIFILM Corporation

Epivalence

Key Questions Answered:

1. How big is the global ALD and CVD Precursors for Semiconductor market?
2. What is the demand of the global ALD and CVD Precursors for Semiconductor market?
3. What is the year over year growth of the global ALD and CVD Precursors for Semiconductor market?
4. What is the production and production value of the global ALD and CVD Precursors for Semiconductor market?
5. Who are the key producers in the global ALD and CVD Precursors for Semiconductor market?
6. What are the growth factors driving the market demand?

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