

# Global ALD and CVD Precursors for Semiconductor Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global ALD and CVD Precursors for Semiconductor market size will reach 2,073.86 Million USD in 2025 and is projected to reach 3,857.32 Million USD by 2032, with a CAGR of 9.27% (2025-2032). Notably, the China ALD and CVD Precursors for Semiconductor market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

ALD (Atomic Layer Deposition) and CVD (Chemical Vapor Deposition) are essential thin film deposition techniques employed in semiconductor manufacturing. In both processes, precursors serve as the elemental building blocks for creating thin films on semiconductor substrates. ALD precursors are typically volatile chemical compounds engineered to react sequentially and self-limitingly with the substrate surface, enabling controlled layer-by-layer growth. These precursors often include metalorganic compounds like trimethylaluminum or tetrakis(dimethylamino)tin, tailored for specific film compositions such as aluminum oxide or tin oxide. On the other hand, CVD precursors are introduced into a reaction chamber alongside a carrier gas and energy source to deposit thin films through chemical reactions either in the gas phase or on the substrate surface. Examples of CVD precursors encompass a broad range of compounds, from metalorganics and metal halides to organometallic complexes, chosen based on the desired material properties and deposition conditions. Both ALD and CVD precursors play pivotal roles in achieving precise control over film thickness, composition, and

quality in semiconductor fabrication processes.

The major global manufacturers of ALD and CVD Precursors for Semiconductor include Merck, Air Liquide, SK Material, Lake Materials, DNF, Yoke (UP Chemical), Soulbrain, Hansol Chemical, ADEKA, Dupont, Nanmat, Engtegris, TANAKA, Botai, Strem Chemicals, Nata Chem, Gelest, Adchem-tech, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of ALD and CVD Precursors for Semiconductor. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global ALD and CVD Precursors for Semiconductor market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the ALD and CVD Precursors for Semiconductor market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of ALD and CVD Precursors for Semiconductor industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from

various markets monitoring database.

Global Key Manufacturers of ALD and CVD Precursors for Semiconductor Include:

Merck

Air Liquide

SK Material

Lake Materials

DNF

Yoke (UP Chemical)

Soulbrain

Hansol Chemical

ADEKA

Dupont

Nanmat

Engtegris

TANAKA

Botai

Strem Chemicals

Nata Chem

Gelest

Adchem-tech

ALD and CVD Precursors for Semiconductor Product Segment Include:

Silicon Precursor

Titanium Precursor

Zirconium Precursor

Others

ALD and CVD Precursors for Semiconductor Product Application Include:

Integrated Circuit Chip

Flat Panel Display

Solar Photovoltaic

Others

## **Chapter Scope**

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