

Global CVD & ALD Thin Film Precursors Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global CVD & ALD Thin Film Precursors market size will reach 2,078.80 Million USD in 2025 and is projected to reach 3,581.21 Million USD by 2032, with a CAGR of 8.08% (2025-2032). Notably, the China CVD & ALD Thin Film Precursors 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

CVD (Chemical Vapor Deposition) and ALD (Atomic Layer Deposition) thin film precursors are specialized chemicals used in semiconductor and nanotechnology industries to deposit thin films of various materials onto substrates with high precision and control. CVD is a process where the precursor gases react on the substrate surface to form a solid film, while ALD involves sequential and self-limiting surface reactions to achieve precise layer-by-layer deposition. These thin film precursors are typically volatile compounds, such as metal organic compounds, metal halides, or metal alkoxides, that can be easily vaporized and transported to the substrate in a controlled environment. They play a critical role in creating uniform, conformal, and high-quality thin films for applications like semiconductor devices, integrated circuits, sensors, and displays. The choice of precursor is crucial as it determines the film's properties, such as composition, thickness, and crystallinity. Precursor development and optimization are ongoing research areas to meet the demanding requirements of emerging technologies and continue to advance the performance and functionality of thin film-based devices.

The major global manufacturers of CVD & ALD Thin Film Precursors include Merck, Air Liquide, SK Materials, Engtegris, DNF, UP Chemical (Yoke Technology), Soulbrain, Hansol Chemical, DuPont, Mecaro, ADEKA, Nanmat Technology, Anhui Botai Electronic Materials, TANAKA PRECIOUS METALS, Strem Chemicals, Nata Opto-electronic Material, Gelest, EpiValence, ADchem Semi-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 CVD & ALD Thin Film Precursors. 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 CVD & ALD Thin Film Precursors 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 CVD & ALD Thin Film Precursors 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 CVD & ALD Thin Film Precursors 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 CVD & ALD Thin Film Precursors Include:

Merck

Air Liquide

SK Materials

Engtegris

DNF

UP Chemical (Yoke Technology)

Soulbrain

Hansol Chemical

DuPont

Mecaro

ADEKA

Nanmat Technology

Anhui Botai Electronic Materials

TANAKA PRECIOUS METALS

Strem Chemicals

Nata Opto-electronic Material

Gelest

EpiValence

ADchem Semi-Tech

CVD & ALD Thin Film Precursors Product Segment Include:

Silicon Precursors

Metal Precursors

High-k Precursors

Low-k Precursors

CVD & ALD Thin Film Precursors Product Application Include:

Integrated Circuits

Flat Panel Display

PV Industry

Other

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Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

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