

# Global Tantalum 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 Tantalum ALD/CVD Precursors market size was valued at US\$ 98 million in 2025 and is forecast to a readjusted size of US\$ 142 million by 2032 with a CAGR of 5.9% during review period.

Tantalum ALD/CVD Precursors are high-purity tantalum source chemicals specifically designed for atomic layer deposition and chemical vapor deposition processes. They generally require suitable vapor pressure, controlled thermal decomposition behavior, low metallic impurities, low moisture and oxygen residues, stable delivery performance, and compatibility with co-reactants such as  $\text{NH}_3$ ,  $\text{H}_2\text{O}$ ,  $\text{O}_2$ ,  $\text{H}_2$ , and plasma species. Product forms include solids, liquids, halides, tantalum amides, imido-amido tantalum compounds, and tantalum alkoxides. They are mainly used in semiconductor copper interconnect barriers, adhesion layers, high-k dielectrics, DRAM capacitors, logic BEOL interconnects, advanced memory devices, and selected optical functional coatings, with key production and consumption concentrated in semiconductor material and wafer manufacturing hubs such as the United States, Germany, France, Japan, South Korea, China, and Taiwan, China.

In 2025, global Tantalum ALD/CVD Precursors production reached approximately 12-17 metric tons, while semiconductor-grade bulk FOB prices mainly ranged from USD 5,000-7,800/kg.

The global Tantalum ALD/CVD Precursors market is entering a growth phase driven by advanced semiconductor materials localization, supply chain resilience, and device architecture upgrades. As logic chips move toward more advanced nodes and DRAM and 3D NAND structures continue to become more three-dimensional, high-aspect-ratio

trenches, vias, barrier layers, and high-k dielectrics require higher film uniformity, better interface control, lower defectivity, and stricter impurity control. As a result, tantalum source materials such as PDMAT and TBTDET are gaining stronger application value in TaN, Ta<sub>2</sub>O<sub>5</sub>, TaCN, and related tantalum-based films. Future opportunities will come not only from new wafer capacity but also from continuous customer upgrades toward more stable batches, higher purity, lower particle levels, lower moisture and oxygen content, and customized delivery containers.

Key market challenges include high barriers in ultra-high-purity synthesis and purification, sensitivity to air and moisture, long customer qualification cycles, differentiated process windows, and volatility in tantalum raw material prices. Since Tantalum ALD/CVD Precursors are usually used in critical wafer fab processes, suppliers must have not only chemical synthesis capability but also analytical testing, ultra-clean filling, hazardous material logistics, on-site technical support, and long-term quality traceability systems. Downstream demand is expected to remain concentrated in Asian wafer fabs, advanced memory, high-end logic BEOL interconnects, and advanced packaging. Companies with stable delivery capability, regional service networks, and co-development capabilities with equipment makers and wafer fabs will be better positioned to enter core supply chains.

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

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

Global Tantalum ALD/CVD Precursors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling

prices (US\$/kg), 2021-2032

Global Tantalum ALD/CVD Precursors market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), 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 Tantalum 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 Tantalum 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 Merck KGaA, Air Liquide S.A., Entegris, Inc., Ascensus Specialties LLC, Mitsubishi Chemical Group Corporation, Ereztech LLC, Dockweiler Chemicals GmbH, Pegasus Chemicals Limited, ADEKA Corporation, Tri Chemical Laboratories Inc., etc.

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

## Market Segmentation

Tantalum 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

### Solid Precursors

Liquid Precursors

Solution Based Precursors

Market segment by Chemical Family

Tantalum Amide Precursors

Imido Amido Tantalum Precursors

Tantalum Alkoxide Precursors

Tantalum Halide Precursors

Market segment by Deposition Process

ALD Specific Precursors

CVD Specific Precursors

Dual Qualified ALD and CVD Precursors

Market segment by Purity Level

Six N and Above

Five N to Six N

Below Five N and Others

Market segment by Application

Semiconductor Manufacturing

Optoelectronics and Optical Coatings

Others

#### Major players covered

Merck KGaA

Air Liquide S.A.

Entegris, Inc.

Ascensus Specialties LLC

Mitsubishi Chemical Group Corporation

Ereztech LLC

Dockweiler Chemicals GmbH

Pegasus Chemicals Limited

ADEKA Corporation

Tri Chemical Laboratories Inc.

JX Advanced Metals Corporation

Soulbrain Co., Ltd.

Nanmat Technology Co., Ltd.

Jiangsu Yoke Technology Co., Ltd.

Anhui ADChem Semi-Tech. Co., Ltd.

Anhui Argosun New Electronic Materials Co., Ltd.

APK (Shanghai) Gas Co., Ltd.

Shanghai Oriphant Chemical Co., Ltd.

Sinocompound Catalysts Co., Ltd.

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)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Tantalum ALD/CVD Precursors product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Tantalum 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 Tantalum 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 Tantalum ALD/CVD Precursors.

Chapter 14 and 15, to describe Tantalum ALD/CVD Precursors sales channel, distributors, customers, research findings and conclusion.

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