

Global Solid Precursors Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Solid Precursors market size was valued at USD 56 million in 2023 and is forecast to a readjusted size of USD 242.8 million by 2030 with a CAGR of 23.3% during review period.

This report studies the solid precursors are used in semiconductor applications and excel in Atomic Layer Deposition (ALD) and Chemical Vapor Deposition (CVD), especially for metals deposition. Solid precursors based on hafnium and zirconium have been used in semiconductor fabs for decades. New solid precursors based on aluminum (Al), molybdenum (Mo), and tungsten (W) are needed to meet the device and integration requirements for the latest generation of 3D devices. As layers become thinner, materials requirements often change. The drive toward fluorine-free materials mitigates yield loss that can occur when fluorine reacts with nanoscale layers in devices. In the case of W precursors, tungsten pentachloride (WCl₅) is replacing gaseous tungsten hexafluoride (WF₆). WCl₅ is a solid at room temperature.

The Global Info Research report includes an overview of the development of the Solid Precursors industry chain, the market status of ALD/CVD (Based on Al, Mo, and W, Based on Hafnium and Zirconium), Others (LED, etc.) (Based on Al, Mo, and W, Based on Hafnium and Zirconium), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Solid Precursors.

Regionally, the report analyzes the Solid Precursors markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global

Solid Precursors market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Solid Precursors market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Solid Precursors industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Kg), revenue generated, and market share of different by Type (e.g., Based on Al, Mo, and W, Based on Hafnium and Zirconium).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Solid Precursors market.

Regional Analysis: The report involves examining the Solid Precursors market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Solid Precursors market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Solid Precursors:

Company Analysis: Report covers individual Solid Precursors manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Solid Precursors This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (ALD/CVD, Others (LED,

etc.)).

Technology Analysis: Report covers specific technologies relevant to Solid Precursors. It assesses the current state, advancements, and potential future developments in Solid Precursors areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Solid Precursors market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Solid Precursors market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Based on Al, Mo, and W

Based on Hafnium and Zirconium

Others (Ruthenium, etc.)

Market segment by Application

ALD/CVD

Others (LED, etc.)

Major players covered

Entegris

Merck KGaA

TANAKA

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 Solid Precursors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Solid Precursors, with price, sales, revenue and global market share of Solid Precursors from 2019 to 2024.

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

Chapter 4, the Solid Precursors breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Solid Precursors market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Solid Precursors.

Chapter 14 and 15, to describe Solid Precursors sales channel, distributors, customers, research findings and conclusion.

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