

# Global Precursor for Semiconductor Market 2024 by Company, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Precursor for Semiconductor market size was valued at USD 2441.7 million in 2023 and is forecast to a readjusted size of USD 4890.3 million by 2030 with a CAGR of 10.4% during review period.

Semiconductor precursor is the core manufacturing material of semiconductor thin film deposition process. It has high barriers and high growth. It is used in semiconductor production and manufacturing process to carry target elements, gaseous or volatile liquid, with chemical and thermal stability, and corresponding reactivity or physical properties. a class of substances. In the semiconductor manufacturing process including thin film, lithography, interconnection, doping technology, etc., the precursor is mainly used in vapor deposition (including physical deposition PVD, chemical vapor deposition CVD and atomic vapor deposition ALD) to form semiconductor manufacturing requirements various thin film layers. In addition, the precursor can also be used for semiconductor epitaxial growth, etching, ion implantation doping and cleaning, etc., and is one of the core materials for semiconductor manufacturing.

Globally, Merck will rank first in the world with a market share of 33% in 2022; Air Liquide will rank second globally with a market share of 29%; and SK Material will rank third with a market share of nearly 7%. On the whole, the semiconductor precursor market is highly concentrated, and the market share of the top three companies in the world is as high as 70%. For new entrants, there will be relatively large market barriers. From the perspective of product types, this article divides semiconductor precursors into four types: silicon precursors, metal precursors, High-k precursors, and Low-k precursors. Each type has different application scenarios. For example, silicon oxide

and silicon nitride precursors are mainly used in 20nm memory chips and logic chip lithography processes; while High-k precursors are mainly used in semiconductor processes below 45nm. At present, High-k and metal precursors occupy the main market share, and the two will reach US\$820 million and US\$660 million respectively in 2022. With the development of memory chip and logic chip technology in the future, High-k -k and metals will become mainstream, and we expect their market sizes to reach \$2.16 billion and \$1.54 billion, respectively, by 2029.

The Global Info Research report includes an overview of the development of the Precursor for Semiconductor industry chain, the market status of PVD/CVD/ALD (Silicon Precursor, Metal Precursor), Epitaxial Growth and Etching, etc. (Silicon Precursor, Metal Precursor), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Precursor for Semiconductor.

Regionally, the report analyzes the Precursor for Semiconductor 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 Precursor for Semiconductor market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Precursor for Semiconductor 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 Precursor for Semiconductor 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 revenue generated, and market share of different by Type (e.g., Silicon Precursor, Metal Precursor).

**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 Precursor for Semiconductor market.

**Regional Analysis:** The report involves examining the Precursor for Semiconductor 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 Precursor for Semiconductor market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Precursor for Semiconductor:

**Company Analysis:** Report covers individual Precursor for Semiconductor players, 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 Precursor for Semiconductor. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (PVD/CVD/ALD, Epitaxial Growth and Etching, etc.).

**Technology Analysis:** Report covers specific technologies relevant to Precursor for Semiconductor. It assesses the current state, advancements, and potential future developments in Precursor for Semiconductor areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Precursor for Semiconductor 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

Precursor for Semiconductor 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 value.

## Market segment by Type

Silicon Precursor

Metal Precursor

High-k Precursor

Low-k Precursor

## Market segment by Application

PVD/CVD/ALD

Epitaxial Growth and Etching, etc.

## Market segment by players, this report covers

Merck Group

Air Liquide

SK Materials

UP Chemical

Entegris

ADEKA

Hansol Chemical

DuPont

SoulBrain Co Ltd

Nanmat

DNF Solutions

Natachem

Tanaka Kikinzoku

Botai Electronic Material

Gelest

Strem Chemicals

Anhui Adchem

EpiValence

FUJIFILM Corporation

Japan Advanced Chemicals

Wonik Materials

Market segment by regions, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, UK, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Australia and Rest of Asia-Pacific)

South America (Brazil, Argentina and Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Precursor for Semiconductor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Precursor for Semiconductor, with revenue, gross margin and global market share of Precursor for Semiconductor from 2019 to 2024.

Chapter 3, the Precursor for Semiconductor competitive situation, revenue and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and application, with consumption value and growth rate by Type, application, from 2019 to 2030.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2019 to 2024. and Precursor for Semiconductor market forecast, by regions, type and application, with consumption value, from 2025 to 2030.

Chapter 11, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Precursor for Semiconductor.

Chapter 13, to describe Precursor for Semiconductor research findings and conclusion.

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