

Global Precursor for Semiconductor Market Growth (Status and Outlook) 2024-2030

<https://marketpublishers.com/r/G38A62AAF345EN.html>

Date: January 2024

Pages: 152

Price: US\$ 3,660.00 (Single User License)

ID: G38A62AAF345EN

Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

According to our LPI (LP Information) latest study, the global Precursor for Semiconductor market size was valued at US\$ 2321.4 million in 2023. With growing demand in downstream market, the Precursor for Semiconductor is forecast to a readjusted size of US\$ 4913.8 million by 2030 with a CAGR of 11.3% during review period.

The research report highlights the growth potential of the global Precursor for Semiconductor market. Precursor for Semiconductor are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of Precursor for Semiconductor. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the Precursor for Semiconductor market.

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.

Key Features:

The report on Precursor for Semiconductor market reflects various aspects and provide valuable insights into the industry.

Market Size and Growth: The research report provide an overview of the current size and growth of the Precursor for Semiconductor market. It may include historical data, market segmentation by Type (e.g., Silicon Precursor, Metal Precursor), and regional breakdowns.

Market Drivers and Challenges: The report can identify and analyse the factors driving the growth of the Precursor for Semiconductor market, such as government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

Competitive Landscape: The research report provides analysis of the competitive landscape within the Precursor for Semiconductor market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also highlight emerging players and their potential impact on the market.

Technological Developments: The research report can delve into the latest technological developments in the Precursor for Semiconductor industry. This include advancements in Precursor for Semiconductor technology, Precursor for Semiconductor new entrants, Precursor for Semiconductor new investment, and other innovations that are shaping the future of Precursor for Semiconductor.

Downstream Procumbent Preference: The report can shed light on customer procumbent behaviour and adoption trends in the Precursor for Semiconductor market. It includes factors influencing customer ' purchasing decisions, preferences for Precursor for Semiconductor product.

Government Policies and Incentives: The research report analyse the impact of government policies and incentives on the Precursor for Semiconductor market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting Precursor for Semiconductor market. The report also evaluates the effectiveness of these policies in driving market growth.

Environmental Impact and Sustainability: The research report assess the environmental impact and sustainability aspects of the Precursor for Semiconductor market.

Market Forecasts and Future Outlook: Based on the analysis conducted, the research report provide market forecasts and outlook for the Precursor for Semiconductor industry. This includes projections of market size, growth rates, regional trends, and predictions on technological advancements and policy developments.

Recommendations and Opportunities: The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the Precursor for Semiconductor market.

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.

Segmentation by type

Silicon Precursor

Metal Precursor

High-k Precursor

Low-k Precursor

Segmentation by application

PVD/CVD/ALD

Epitaxial Growth and Etching, etc.

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

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

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