

Atomic Layer Deposition Market By Product (Thermal, Metal, Plasma-enhanced, Others), By Application (Semiconductors and Electronics, Healthcare and Biomedical, Automotive, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2031

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Abstracts

The atomic layer deposition market was valued at \$2.4 billion in 2023, and is projected to reach \$6.1 billion by 2031, growing at a CAGR of 12.3% from 2024 to 2031.

Atomic layer deposition has emerged as an advanced deposition technique that involves the deposition of ultra-thin films to be deposited on various applications. The use of atomic layer deposition provides enhanced surface control and can produce thin, uniform and defect-free films over large areas. This technique not only provides excellent thickness control and uniformity but 3D structures can also be covered with a conformal coating for high-aspect-ratio structures.

The growth of the atomic layer deposition market is majorly driven by expansion of the medical sector and surge in need for advanced medical devices. This is attributed to the fact that atomic layer deposition technology is increasingly being adopted in the development of advanced medical devices and implants due to its ability to produce ultra-thin, uniform, and high-quality coatings. These coatings enhance the biocompatibility, durability, and performance of medical devices, making them more reliable for long-term use in the human body. Furthermore, expansion of the energy sector significantly contributes toward the market growth, as this technology is used in the production of solar batteries and devices. However, high initial investment required for setting up atomic layer deposition facilities and the ongoing operational costs act as the key deterrent factors of the global market. On the contrary, surge in demand for advanced coatings in next-generation semiconductor devices and the automotive sector

is expected to open new avenues for the growth of the market.

The global atomic layer deposition market is segmented into product, application, and region. By product, the market is classified into thermal, metal, plasma-enhanced, and others. By application, it is divided into semiconductors and electronics, healthcare and biomedical, automotive, and others. Region wise the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

By product, the thermal segment held the highest market share in 2023, and is likely to retain its dominance by 2031.

On the basis of application, the semiconductors & electronics segment was the major shareholder in 2023, and is expected to maintain the same trend during the forecast period.

Region wise, Asia-Pacific is expected to experience the fastest growth in the coming years.

Competition Analysis

Competitive analysis and profiles of the major players in the global atomic layer deposition market include Forge Nano Inc., Beneq Group, Oxford Instruments, Applied Materials, Inc., LAM RESEARCH CORPORATION, ASM International N.V., Kurt J. Lesker Company, Veeco Instruments Inc., Entegris, Inc., and Picosun Oy. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships to strengthen their foothold in the competitive market.

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Investment Opportunities

Product Benchmarking / Product specification and applications

Product Life Cycles

Supply Chain Analysis & Vendor Margins

Upcoming/New Entrant by Regions

Technology Trend Analysis

Market share analysis of players by products/segments

New Product Development/ Product Matrix of Key Players

Regulatory Guidelines

Surgical procedures data- specific or multiple surgery types

Additional company profiles with specific client's interest

Additional country or region analysis- market size and forecast

Brands Share Analysis

Historic market data

Key player details (including location, contact details, supplier/vendor network etc. in excel format)

List of customers/consumers/raw material suppliers- value chain analysis

Market share analysis of players at global/region/country level

SWOT Analysis

Volume Market Size and Forecast

Key Market Segments

By Product

Thermal

Metal

Plasma-enhanced

Others

By Application

Semiconductors and Electronics

Healthcare and Biomedical

Automotive

Others

By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

Rest of LAMEA

Key Market Players

Forge Nan%li%Inc.

Beneq Group

Oxford Instruments

Applied Materials, Inc.

LAM RESEARCH CORPORATION

ASM International N.V.

Kurt J. Lesker Company

Veec%li%Instruments Inc.

Entegris, Inc.

Picosun Oy.

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