

North America Atomic Layer Deposition Market Report and Forecast 2025-2034

Market Report | 2025-06-05 | 105 pages | EMR Inc.

AVAILABLE LICENSES:

- Single User License \$3599.00
- Five User License \$4249.00
- Corporate License \$5099.00

Report description:

The North America atomic layer deposition market size reached around USD 721.50 Million in 2024. The market is projected to grow at a CAGR of 12.70% between 2025 and 2034, reaching almost USD 2384.93 Million by 2034.

Atomic layer deposition (ALD) helps the electronics industry in establishing precise checks and controls over the process of manufacturing advanced integrated circuits. Increasing technological advancements aimed at overcoming the inherent drawbacks of traditional ALD methods and improving the thin film material properties is expected to drive innovations in the atomic layer deposition market. This includes the development of microwave-enhanced ALD to remove defects and impurities from electronic wafers.

The Integration of artificial intelligence into ALD can help scientists in material discovery and anticipate new materials' behaviours, which can substantially improve the outcomes of increasing investments and research into ALD technique. These factors are expected to accelerate the North America atomic layer deposition market expansion over the forecast period.

The application of atomic layer deposition technique in manufacturing medical devices such as surgical implants and implantable microelectronic sensors are expected to become increasingly popular. This is because ALD provides a pinhole-free, conformal, and uniform protection coating to the encapsulated object, which prevents rejection reaction by the body and prevents the release of metal ions (caused by corrosion by body fluids) into the body. This ensure quicker patient recovery from hospital discharge time.

The ALD technique is also expected to facilitate the growth of remote healthcare services in the region, which is expected to accelerate the North America atomic layer deposition market development over the forecast period.

Market Segmentation

North America Atomic layer deposition Market Report and Forecast 2025-2034 offers a detailed analysis of the market based on the following segments:

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Market Breakup by Type

- Metal ALD
- Aluminium Oxide ALD
- Plasma Enhanced ALD
- Others

Market Breakup by Application

- Electronics and Semiconductors
- Solar Devices
- Medical
- Others

Market Breakup by Country

- United States of America
- Canada

The key North America atomic layer deposition market players are Applied Materials, Inc., Oxford Instruments plc, CVD Equipment Corporation, ASM International N.V., LAM Research Corporation, Kurt J. Leskar Company, Veeco Instruments, Inc., Forge Nano Inc., Beneq Oy, and Arradance, LLC, among others.

Table of Contents:

- 1 Executive Summary
 - 1.1 Market Size 2024-2025
 - 1.2 Market Growth 2025(F)-2034(F)
 - 1.3 Key Demand Drivers
 - 1.4 Key Players and Competitive Structure
 - 1.5 Industry Best Practices
 - 1.6 Recent Trends and Developments
 - 1.7 Industry Outlook
- 2 Market Overview and Stakeholder Insights
 - 2.1 Market Trends
 - 2.2 Key Verticals
 - 2.3 Key Countries
 - 2.4 Supplier Power

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 2.5 Buyer Power
- 2.6 Key Market Opportunities and Risks
- 2.7 Key Initiatives by Stakeholders
- 3 Economic Summary
 - 3.1 GDP Outlook
 - 3.2 GDP Per Capita Growth
 - 3.3 Inflation Trends
 - 3.4 Democracy Index
 - 3.5 Gross Public Debt Ratios
 - 3.6 Balance of Payment (BoP) Position
 - 3.7 Population Outlook
 - 3.8 Urbanisation Trends
- 4 Country Risk Profiles
 - 4.1 Country Risk
 - 4.2 Business Climate
- 5 Global Atomic Layer Deposition Market Overview
 - 5.1 Key Industry Highlights
 - 5.2 Global Atomic Layer Deposition Historical Market (2018-2024)
 - 5.3 Global Atomic Layer Deposition Market Forecast (2025-2034)
 - 5.4 Global Atomic Layer Deposition Market Share by Region
 - 5.4.1 North America
 - 5.4.2 Europe
 - 5.4.3 Asia Pacific
 - 5.4.4 Latin America
 - 5.4.5 Middle East and Africa
- 6 North America Atomic Layer Deposition Market Overview
 - 6.1 Key Industry Highlights
 - 6.2 North America Atomic Layer Deposition Historical Market (2018-2024)
 - 6.3 North America Atomic Layer Deposition Market Forecast (2025-2034)
- 7 North America Atomic Layer Deposition Market by Type
 - 7.1 Metal ALD
 - 7.1.1 Historical Trend (2018-2024)
 - 7.1.2 Forecast Trend (2025-2034)
 - 7.2 Aluminium Oxide ALD
 - 7.2.1 Historical Trend (2018-2024)
 - 7.2.2 Forecast Trend (2025-2034)
 - 7.3 Plasma Enhanced ALD
 - 7.3.1 Historical Trend (2018-2024)
 - 7.3.2 Forecast Trend (2025-2034)
 - 7.4 Others
- 8 North America Atomic Layer Deposition Market by Application
 - 8.1 Electronics and Semiconductors
 - 8.1.1 Historical Trend (2018-2024)
 - 8.1.2 Forecast Trend (2025-2034)
 - 8.2 Solar Devices
 - 8.2.1 Historical Trend (2018-2024)
 - 8.2.2 Forecast Trend (2025-2034)

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

| | |
|---|--|
| 8.3 Medical | |
| 8.3.1 Historical Trend (2018-2024) | |
| 8.3.2 Forecast Trend (2025-2034) | |
| 8.4 Others | |
| 9 North America Atomic Layer Deposition Market by Country | |
| 9.1 United States of America | |
| 9.1.1 Historical Trend (2018-2024) | |
| 9.1.2 Forecast Trend (2025-2034) | |
| 9.2 Canada | |
| 9.2.1 Historical Trend (2018-2024) | |
| 9.2.2 Forecast Trend (2025-2034) | |
| 10 Market Dynamics | |
| 10.1 SWOT Analysis | |
| 10.1.1 Strengths | |
| 10.1.2 Weaknesses | |
| 10.1.3 Opportunities | |
| 10.1.4 Threats | |
| 10.2 Porter's Five Forces Analysis | |
| 10.2.1 Supplier's Power | |
| 10.2.2 Buyer's Power | |
| 10.2.3 Threat of New Entrants | |
| 10.2.4 Degree of Rivalry | |
| 10.2.5 Threat of Substitutes | |
| 10.3 Key Indicators for Price | |
| 10.4 Key Indicators for Demand | |
| 11 Competitive Landscape | |
| 11.1 Supplier Selection | |
| 11.2 Key Global Players | |
| 11.3 Key Regional Players | |
| 11.4 Key Player Strategies | |
| 11.5 Company Profiles | |
| 11.5.1 Applied Materials, Inc. | |
| 11.5.1.1 Company Overview | |
| 11.5.1.2 Product Portfolio | |
| 11.5.1.3 Demographic Reach and Achievements | |
| 11.5.1.4 Certifications | |
| 11.5.2 Oxford Instruments plc | |
| 11.5.2.1 Company Overview | |
| 11.5.2.2 Product Portfolio | |
| 11.5.2.3 Demographic Reach and Achievements | |
| 11.5.2.4 Certifications | |
| 11.5.3 CVD Equipment Corporation | |
| 11.5.3.1 Company Overview | |
| 11.5.3.2 Product Portfolio | |
| 11.5.3.3 Demographic Reach and Achievements | |
| 11.5.3.4 Certifications | |
| 11.5.4 ASM International N.V. | |

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 11.5.4.1 Company Overview
- 11.5.4.2 Product Portfolio
- 11.5.4.3 Demographic Reach and Achievements
- 11.5.4.4 Certifications
- 11.5.5 LAM Research Corporation
 - 11.5.5.1 Company Overview
 - 11.5.5.2 Product Portfolio
 - 11.5.5.3 Demographic Reach and Achievements
 - 11.5.5.4 Certifications
- 11.5.6 Kurt J. Leskar Company
 - 11.5.6.1 Company Overview
 - 11.5.6.2 Product Portfolio
 - 11.5.6.3 Demographic Reach and Achievements
 - 11.5.6.4 Certifications
- 11.5.7 Veeco Instruments, Inc.
 - 11.5.7.1 Company Overview
 - 11.5.7.2 Product Portfolio
 - 11.5.7.3 Demographic Reach and Achievements
 - 11.5.7.4 Certifications
- 11.5.8 Forge Nano Inc.
 - 11.5.8.1 Company Overview
 - 11.5.8.2 Product Portfolio
 - 11.5.8.3 Demographic Reach and Achievements
 - 11.5.8.4 Certifications
- 11.5.9 Beneq Oy
 - 11.5.9.1 Company Overview
 - 11.5.9.2 Product Portfolio
 - 11.5.9.3 Demographic Reach and Achievements
 - 11.5.9.4 Certifications
- 11.5.10 Arradance, LLC
 - 11.5.10.1 Company Overview
 - 11.5.10.2 Product Portfolio
 - 11.5.10.3 Demographic Reach and Achievements
 - 11.5.10.4 Certifications
- 11.5.11 Others

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

North America Atomic Layer Deposition Market Report and Forecast 2025-2034

Market Report | 2025-06-05 | 105 pages | EMR Inc.

To place an Order with Scotts International:

- ☐ - Print this form
- ☐ - Complete the relevant blank fields and sign
- ☐ - Send as a scanned email to support@scotts-international.com

ORDER FORM:

| Select license | License | Price |
|----------------|---------------------|-----------|
| | Single User License | \$3599.00 |
| | Five User License | \$4249.00 |
| | Corporate License | \$5099.00 |
| | | VAT |
| | | Total |

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

☐ ** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

| | | | |
|---------------|----------------------|-------------------------------|---|
| Email* | <input type="text"/> | Phone* | <input type="text"/> |
| First Name* | <input type="text"/> | Last Name* | <input type="text"/> |
| Job title* | <input type="text"/> | | |
| Company Name* | <input type="text"/> | EU Vat / Tax ID / NIP number* | <input type="text"/> |
| Address* | <input type="text"/> | City* | <input type="text"/> |
| Zip Code* | <input type="text"/> | Country* | <input type="text"/> |
| | | Date | <input type="text" value="2025-06-22"/> |
| | | Signature | <input type="text"/> |

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com