Atomic Layer Deposition Market Analysis: By Type (Precursor, Material, Film Type and Others); By Application (Electronics Sector, Mechanical Sector, Chemical Sector, Energy Sector, Healthcare, Nanotechnology and Others) - With Forecast (2016-2021)

Description: Atomic layer deposition is a process by which thin films of a variety of materials can be deposited onto any substrate material. During the process, there are a number of chemicals that are made to react with the surface of a material through a series of steps thereby creating a thin film. Because of the ability to create thin films, atomic layer deposition is used for products such as displays, data storage devices and small electronic components where the thickness of the film is absolutely imperative. Through atomic layer deposition, a thin film can be created in a controlled manner depending on the material or product which needs the layer to be applied onto.

Over the last few years, there has been considerable research that has been going on in the field of nanotechnology as well as microelectronics. Atomic layer deposition is a perfect deposition method for such applications where the surface area of the base material is very small. In spite of these advantages however, atomic layer deposition is not as popular as other conventional deposition methods such as physical vapor deposition primarily due to the cost involved. The equipment in itself is considerably more expensive than other standard deposition equipment and furthermore, the substrate materials required for the deposition is also more expensive.

A key factor which is driving the growth for the Atomic layer deposition market is the requirement for power management in almost all electronic products which are being manufactured today. Smaller and more powerful ICs require optimal power management is essential for today's electronics and Atomic layer depositions play an important role in ensuring that there is proper power management.

In addition to consumer electronics being a key driver for the Atomic layer deposition market, the Automotive segment is also a key growth area for the Atomic layer deposition market. The modern day automobile has electronics in almost every section of the vehicle ranging from the engine to the safety features to even the infotainment systems. Atomic layer depositions are used for these applications in vehicles power management.

This report segments the market on the basis of type as
Precursor type
Material Type
Film Type
Others

In terms of applications, the atomic layer deposition market has been segmented across the following applications
Electronics sector
Mechanical sector
Chemical sector
Energy sector
Optics sector
Healthcare sector
Nanotechnology

The market has been segmented based on the following geographies
APAC
Europe
Middle East and Africa
North America
South America

The competitive landscape of the atomic layer deposition market consists of the following key players
9.1. New Product Launches
9.2. M&As, Collaborations, JVs and Partnerships
10. Company Profiles
  10.1. AIXTRON SE
  10.2. Adeka Corporation
  10.3. Air Liquide S.A.
  10.4. Air Products and Chemicals, Inc
  10.5. Applied Materials, Inc.
  10.6. Arradiance, Inc.
  10.7. ASM International N.V.
  10.8. ATMI, Inc
  10.9. Beneq
  10.10. Centrotherm Photovoltaics AG
  10.11. Encapsulix SAS
  10.12. Hitachi Kokusai Electric Inc
  10.13. Kurt J. Lesker Company
  10.15. Tosoh Corporation
  10.16. Ultratech, Inc.
  10.17. Veeco Instruments, Inc.
*More than 40 Companies are profiled in this Research Report, Complete List available on Request*
**Financials would be provided on a best efforts basis for private companies**
11. Appendix
  11.1. Abbreviations
  11.2. Sources
  11.3. Research Methodology
  11.4. Bibliography
  11.5. Compilation of Expert Insights
  11.6. Disclaimer

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