

# North America Physical Vapor Deposition (PVD) Market (2019-2025)

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## Abstracts

The North America Physical Vapor Deposition Market would witness market growth of 5.28% CAGR during the forecast period (2019-2025).

In the United States, the Environmental Protection Agency (EPA) has strictly limited the use of hexavalent chromium in electroplating owing to its harmful environmental impacts. This constraint has diverted the industries to Physical Vapor Deposition. Major factors that increase market growth include significant growth in the semiconductor industry, increased demand for medical equipment, etc.

Vapor deposition is a technique used in the manufacture of thin films and coatings. It is characterized by a cycle in which the substance moves from the condensed phase to the vapor phase and back to the condensed phase of the thin film. Several products like microelectronics, storage devices, cutting tools, medical equipment, solar panels, etc. are coated with thin protective film in the coating procedure. There are two kinds of physical vapor deposition- evaporation and sputtering.

Materials that get vaporized through high temperatures, such as refractory oxide compounds and refractory metals, also need higher temperature of the targeted electron beam source (E-B). Nearly any substance that can be evaporated by RH may be evaporated by E-B; however, the power (high voltage) of fluoride compounds must be reduced to avoid dissociation. Metals like aluminum, gold, and copper have lower evaporation temperatures as compared to dielectric and RH, which is used more commonly.

Oxide and nitride compounds typically require the presence of a reactive atmosphere in order to recombine the compound or to determine the correct composition of the film.

The partial pressure of the appropriate gas, the deposition at the appropriate rate and the temperature of the substrate all affect the film composition.

Based on Application, the market is segmented into Cutting Tools, Medical Equipment, Solar Products, Data Storage, Microelectronics and Other Applications. Based on Category, the market is segmented into PVD Materials, PVD Equipment and PVD Services. Based on countries, the market is segmented into U.S., Mexico, Canada, and Rest of North America.

The market research report covers the analysis of key stake holders of the market. Key companies profiled in the report Applied Materials, Inc., Lam Research Corporation (Novellus Systems), Intevac, Inc., Advanced Energy Industries, Inc., Kurt J. Lesker Company, AJA International, Inc., Angstrom Engineering, Inc., CHA Industries, Inc., Denton Vacuum LLC, and PVD Products, Inc.

## **SCOPE OF THE STUDY**

Market Segmentation:

By Application

Cutting Tools

Medical Equipment

Solar Products

Data Storage

Microelectronics

Other Applications

By Category

PVD Materials

PVD Equipment

## PVD Services

### By Country

US

Canada

Mexico

Rest of North America

### Companies Profiled

Applied Materials, Inc.

Lam Research Corporation (Novellus Systems)

Intevac, Inc.

Advanced Energy Industries, Inc.

Kurt J. Lesker Company

AJA International, Inc.

Angstrom Engineering, Inc.

CHA Industries, Inc.

Denton Vacuum LLC

PVD Products, Inc.

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