

Thin Film Semiconductor Deposition Market By Technology (Chemical Vapor Deposition, Physical Vapor Deposition), By Industry verticals (Consumer Electronics, ICT Sector, Photovoltaic Industry, Automotive, Industrial), Estimation & Forecast, 2016 - 2024

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Abstracts

The global thin film semiconductor deposition market was valued at \$10.1 billion in 2016, and is projected to reach \$29.2 billion by 2024, having a CAGR of 14.2% during the forecast period of 2017 to 2024.

Thin film semiconductor is a special type of semiconductor manufactured by depositing thin films of active semiconductor over a base semiconductor. Thickness of thin film semiconductor ranges from nanometers to several micrometers. The demand for thin film semiconductors has increased rapidly owing to its range of advantages such as high efficiency and low space consumption. Thin film semiconductors are widely used in display panels, microprocessors, and solar panels.

MARKET DETERMINANTS

Supremacy of thin film over conventional silicon semiconductors is most prominent factor which drives the global thin film semiconductor deposition market. Surging demand due to various applications such as use in AMOLED displays also fuels the market. Further, evolving demand for higher efficiency & low space consumption and increasing investment in solar power plants boosts the global thin film semiconductor deposition market. However, huge capital investment for manufacturing and use of poisonous cadmium in thin film semiconductor production might hinder the market.

Increasing solar power applications across various industry verticals and rapidly increasing demand of thin film semiconductors within smartphone industry will offer future opportunities for global thin film semiconductor deposition market.

MARKET SEGMENTATION

Global thin film semiconductor market is segmented by technology, by industry verticals, and by geography. By technology it is further segmented as Chemical vapor deposition, Physical vapor deposition, and Other technologies. Industry verticals are further divided as Consumer electronics, ICT sector, Photovoltaic industry, Automotive Industrial, and Others. Geographically, global thin film semiconductor market is segmented as North America, Europe, APAC, and ROW. Asia-Pacific is expected to dominate the market throughout the forecast period.

Asia-Pacific clearly dominates the thin film semiconductor deposition market, further the automotive sector is expected to grow at CAGR of 16.0. Increased electric vehicle production is one of the key element supporting the growth of thin film semiconductor deposition market.

Some major players of the market are AIXTRON SE, Applied Materials, Inc., CVD Equipment Corporation, Hitachi Kokusai Electric Inc, IHI Hauzer Techno Coating B.V., Lam Research Corporation, Oerlikon Balzers, Shin-Etsu Chemical Co., Ltd., and Sumco Corporation.

MARKET SEGMENTATION

By Technology

Chemical Vapor Deposition

Physical Vapor Deposition

Other Technology

By Industry verticals

Consumer Electronics

ICT Sector

Photovoltaic Industry

Automotive

Industrial

Others (healthcare and aerospace & defense applications)

By Geography

North America

Europe

APAC

ROW

Key Players

AIXTRON SE

Applied Materials, Inc.

CVD Equipment Corporation

Hitachi Kokusai Electric Inc

IHI Hauzer Techno Coating B.V.

Lam Research Corporation

Oerlikon Balzers

Shin-Etsu Chemical Co., Ltd.

Sumco Corporation

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