

# **Advanced Functional Material Market For Low Carbon Applications By Categories (Ceramics, Composites, Energy Materials, Conductive Polymers & Nanomaterials), Applications (Chemicals, Electronics, Healthcare & Transportation) & Geography - Global Trends & Forecasts To 2018**

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## **Abstracts**

AFM for low carbon applications is an umbrella topic, which has five categories of materials. These include advanced functional ceramics, advanced functional composites, advanced energy materials, nanomaterials, and conductive polymers. AFM are substituting conventional material because of its superior physical and chemical properties. AFM are capable of reducing the carbon footprint of the parent system in which it is incorporated. Components and systems that use AFMs use energy more efficiently and emit less CO<sub>2</sub>. It will have a longer service life and a lower replacement footprint. Replacement footprint refers to the addition carbon footprint generated during manufacturing of the component that is to be replaced. End user industries for AFM are automotive, aerospace, consumer durables, energy & power, and healthcare.

## **About the market**

The global market for AFM has grown significantly during the past few years and is expected to grow at a modest pace in the next five years, mainly driven by growing demand in the Asia-Pacific region. Market revenue for AFM in Asia-Pacific was \$29,756.9 million in 2012. China, Japan, and South Korea are the major markets for AFM in Asia-Pacific. Other markets in Asia-Pacific include India, Taiwan, South Korea, Malaysia, Indonesia, Philippines, and Thailand. The demand for AFM in these markets is fueled by demand from end user industries such as automotive, aerospace, energy &

power, electronics, healthcare, and infrastructure.

This report aims to estimate the global market for AFM for 2013 and to project the expected demand of the same in 2018. This market research study provides a detailed qualitative and quantitative analysis of the global AFM market. It provides a comprehensive review of major market drivers, restraints, opportunities, winning imperatives, challenges, and key issues in the market. Opportunities for new entrants in light of market forces such as consumers bargaining strength, raw material sourcing, and market penetration threshold are analyzed using Porters model. The global AFM market is segmented into four major geographies. These are North America, Europe, Asia-Pacific, and ROW. Major markets in these geographies such as the U.S., France, Germany, U.K., China, Japan, South Korea, and Brazil are estimated and forecasted. The market is also segmented by various applications of AFM. We have used various secondary sources such as encyclopedia, directories, and databases to identify & collect information useful for this extensive commercial study of AFM market. The primary sources - experts from related industries and suppliers have been interviewed to obtain & verify critical information as well as to assess the future prospects of AFM.

Competitive scenarios of the top players in the AFM market are discussed in detail. We have also profiled leading players of this industry with their recent developments and other strategic industry activities. These include: Wacker Chemie AG (Germany), ReneSola Ltd (China), 3m Company (U.S.), Bayer AG (Germany), E. I. du Pont de Nemours and Company (U.S.), Deutsche Edelstahlwerke GmbH (Germany), Kyocera Corporation (Japan), Momentive Performance Materials Inc. (U.S.), etc.

Scope of the report: This research report categorizes the global market for AFM for low carbon applications on the basis of applications, and geography, forecasting volumes and revenues in each of the submarkets.

On the basis of applications: The AFM market is segmented on the basis of industry application as electrical & electronics, chemicals & materials, energy & power, transportation, healthcare & pharmaceuticals, and others. Each application is further described in detail in the report with volume and revenue forecast for each application.

On the basis of geography: The global AFM market is segmented into four geographies, North America, Europe, Asia-Pacific, and ROW. Key countries include the U.S., Canada, Germany, France, U.K., Italy, China, Japan, South Korea, Israel, and Brazil.

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