

Global Aerogel Market Outlook 2017-2022

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Abstracts

Aerogel is a synthetic porous ultralight material derived from a gel, in which the liquid component of the gel has been replaced with a gas. The result is a solid with extremely low density and low thermal conductivity. Nicknames include frozen smoke, solid smoke, solid air, or blue smoke owing to its translucent nature and the way light scatters in the material. It feels like fragile expanded polystyrene to the touch. Aerogels can be made from a variety of chemical compounds.

Aerogel was first created by Samuel Stephens Kistler in 1931, as a result of a bet with Charles Learned over who could replace the liquid in 'jellies' with gas without causing shrinkage. Aerogels are produced by extracting the liquid component of a gel through supercritical drying. This allows the liquid to be slowly dried off without causing the solid matrix in the gel to collapse from capillary action, as would happen with conventional evaporation. The first aerogels were produced from silica gels. Kistler's later work involved aerogels based on alumina, chromia and tin dioxide. Carbon aerogels were first developed in the late 1980s. Aerogel does not have a designated material with set chemical formula but the term is used to group all the material with a certain geometric structure.

This report provides detailed analysis of worldwide markets for Aerogel from 2011-2016, and provides extensive market forecasts (2016-2021) by region/country and subsectors. It covers the volumes, prices, historical growth and future perspectives in the Aerogel market and further lays out an analysis of the factors influencing the supply/demand for Aerogel, and the opportunities/challenges faced by industry participants. It also acts as an essential tool to companies active across the value chain and to the new entrants by enabling them to capitalize the opportunities and develop business strategies.

The report has been prepared based on the synthesis, analysis, and interpretation of information about the global Aerogel market collected from specialized sources. The

report covers key technological developments in the recent times and profiles leading players in the market and analyzes their key strategies. The competitive landscape section of the report provides a clear insight into the market share analysis of key industry players. The major players in the global Aerogel market are CABOT, Aspen Aerogels, Alison Hi-Tech, Nano Science and Technology etc.

The report provides separate comprehensive analytics for the North America, Europe, Asia-Pacific, Middle East and Africa and Rest of World. In this sector, global competitive landscape and supply/demand pattern of Aerogel industry has been provided.

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