

Global Aerogel Market Size Study & Forecast, By Form (Blanket, Particle, Panel, Monolith), By Type (Silica, Polymers, Carbon, Others), By End Use Industry (Building and Construction, Oil and Gas, Automotive, Aerospace, Performance Coatings, Others), and Regional Analysis, 2023-2030

<https://marketpublishers.com/r/GD162250D563EN.html>

Date: April 2024

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: GD162250D563EN

Abstracts

Global Aerogel Market is valued at approximately USD XX billion in 2022 and is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2023-2030. 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 material with extremely low density and very low thermal conductivity. It is often referred to as "frozen smoke" or "solid smoke" due to its translucent appearance and the way light passes through it. The increasing demand for energy-efficient solutions, and growing advancements in aerogel manufacturing technologies are anticipated to create a lucrative demand for the market during the forecast period 2023-2030.

Additionally, aerogels are considered environmentally friendly materials due to their low environmental impact and recyclability. With the increasing emphasis on green building technologies and sustainable construction practices, the demand for aerogel-based insulation materials is on the rise. According to US Green Building Council's report, In 2021, India ranked third globally in Leadership in Energy and Environmental Design (LEED) certified green buildings, boasting almost 2.8 million gross sq mt. The US Green Building Council's report revealed China as the leader with 14 million gross sq mt, while Canada secured the second spot with over 3.2 million gross sq mt. As a result, the growing green building adoption is anticipated to support the market growth. Moreover, the growing investments in research and development in aerogel, and increasing

demand for lightweight & protective equipment are anticipated to create a lucrative opportunity for the market. However, the high manufacturing costs stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Aerogel Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the rising demand for energy-efficient buildings, expanding aerospace and defense sector, growing oil and gas sector, increasing environmental awareness, and growing investments in infrastructure development in the region. Whereas the Asia Pacific is expected to grow with the fastest growth rate during the forecast period, owing to factors such as rapid industrialization, growing construction sector, increasing automotive production, and growing awareness of energy efficiency in the region.

Major market players included in this report are:

Aspen Aerogels Inc. (US)

Cabot Corporation (US)

Aerogel Technologies LLC (US)

Nano Tech Co. Ltd. (China)

Armacell International S.A. (Germany)

Guangdong Alison Hi-Tech Co., Ltd. (China)

Active Aerogels (Portugal)

Enersens (France)

JIOS Aerogel Co., Ltd. (South Korea)

BASF SE (Germany)

Recent Developments in the Market:

In February 2023, Svenska Aerogel entered into a collaboration agreement with

a globally renowned producer in the process industry aimed at enhancing the utilization of Quartzene in the customer's product line. As part of the agreement, Svenska Aerogel has pledged to provide 30 tons of Quartzie annually throughout the pilot phase.

Global Aerogel Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Form, Type, End Use Industry, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define the market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters to detailed information about the crucial aspects such as driving factors & challenges that will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Form:

Global Aerogel Market Size Study & Forecast, By Form (Blanket, Particle, Panel, Monolith), By Type (Silica, Po...

Blanket

Particle

Panel

Monolith

By Type:

Silica

Polymers

Carbon

Others

By End Use Industry:

Building and Construction

Oil and Gas

Automotive

Aerospace

Performance Coatings

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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