

Global Automotive Aerogel Insulation Mat Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Automotive Aerogel Insulation Mat market size was valued at US\$ 114 million in 2024 and is forecast to a readjusted size of USD 151 million by 2031 with a CAGR of 4.1% during review period.

Automotive aerogel insulation mats are flexible, lightweight thermal insulation products used in vehicles to manage heat transfer and improve energy efficiency. These mats utilize aerogel, a highly porous material with extremely low thermal conductivity, as the core insulation material. They are typically composed of aerogel embedded within a fibrous matrix or encapsulated in a protective layer. These mats are used in various automotive applications, such as battery thermal management, exhaust system insulation, and cabin thermal comfort, providing superior insulation performance compared to traditional materials while being lightweight and space-saving.

The automotive aerogel insulation mat industry is experiencing significant growth driven by the increasing demand for lightweighting, improved fuel efficiency, and enhanced thermal management in vehicles, especially electric vehicles (EVs). Key trends include the development of more robust and flexible aerogel composites that can withstand the harsh automotive environment, including vibrations, temperature fluctuations, and chemical exposure. There's a growing focus on cost reduction through improved manufacturing processes and the use of more sustainable and readily available raw materials. The industry is also exploring new applications for aerogel mats beyond traditional thermal insulation, such as acoustic insulation and fire protection. Integration with other vehicle components, such as battery packs or exhaust systems, is also becoming increasingly important. The rise of EVs and the need for efficient battery thermal management are significantly driving the demand for high-performance aerogel

insulation mats. Furthermore, stricter emissions regulations and fuel economy standards are pushing automakers to adopt lightweighting strategies, further fueling the growth of this market. The development of thinner and more conformable aerogel mats is also a key trend, allowing for integration into tighter spaces within the vehicle.

This report is a detailed and comprehensive analysis for global Automotive Aerogel Insulation Mat market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Automotive Aerogel Insulation Mat market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Automotive Aerogel Insulation Mat market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Automotive Aerogel Insulation Mat market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Automotive Aerogel Insulation Mat market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Automotive Aerogel Insulation Mat
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Automotive Aerogel Insulation Mat market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key

companies covered as a part of this study include Aspen Aerogels, Cabot Corporation, Armacell, Nano High-Tech, IBIH, Guangdong Alison, Shenzhen Zhongning, Aerospace Wujiang, Dongguan Guixiang, Xiamen Jinfu, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Automotive Aerogel Insulation Mat market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

3mm

2mm

Others

Market segment by Application

Commercial Vehicle

Passenger Vehicle

Major players covered

Aspen Aerogels

Cabot Corporation

Armacell

Nano High-Tech

IBIH

Guangdong Alison

Shenzhen Zhongning

Aerospace Wujiang

Dongguan Guixiang

Xiamen Jinfu

Zhejiang Ugoo

Zhongke Runzi

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Automotive Aerogel Insulation Mat product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive Aerogel Insulation Mat, with price, sales quantity, revenue, and global market share of Automotive Aerogel Insulation Mat from 2020 to 2025.

Chapter 3, the Automotive Aerogel Insulation Mat competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive Aerogel Insulation Mat breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Automotive Aerogel Insulation Mat market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Automotive Aerogel Insulation Mat.

Chapter 14 and 15, to describe Automotive Aerogel Insulation Mat sales channel, distributors, customers, research findings and conclusion.

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