

Global Aerospace Adhesives Market Outlook to 2027

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Abstracts

Aerospace Adhesives include both flammable & non-flammable formulations that provide a robust, permanent & robust bond even in the most demanding of the environment, ensuring all relevant safety standards are met. According to BlueQuark Research and Consulting, the global Aerospace Adhesive market is expected to witness a considerable growth rate during the forecasted period. Factors, like an increase in the Aerospace Adhesives market include growth in the number of travelers worldwide, which has created a demand for more seating space, which fuels the requirements for Aerospace Adhesive. Further, primary & secondary assemblies in aircraft are also likely to provide numerous opportunities for vendors it's customization as per manufacturers' requirements is also driving the growth of the Aerospace Adhesives market. The adhesive manufacturers can tailor the properties such as toughness, viscosity, longer work time, & shorter cure time as per aerospace applications requirements. Furthermore, an increase in demand for new military aircraft, including transport, patrol & fighters projected to assist in the market's growth for aerospace adhesive due to growing defense spending. However, poor performance in shallow temperature & high vacuum environments is expected to hinder the development of the Aerospace Adhesive market.

Aerospace Adhesives are used in various places such as lights, displays, AC, seats, fasteners, cockpit doors, & electronics. These are also used in bonding aircraft structures & airframe structures, such as structural components in the fuselage, control surfaces in wing flaps & tips, empennage components, composite fairings, cargo liners, landing gear doors & floors.

Adhesives are being widely used in aerospace industries to cater to the demand for an increase in fuel productivity by decrease is increasing due to its extensive properties such as resistance to cyclic fatigue, high peel strength, superior durability, exceptional compressive strength, high bond strength, improved toughness, & more. Epoxy resin is

the most adapted adhesive in aerospace as it has good power, does not produce volatiles during curing, & has low shrinkage. Epoxy resin type dominated the market & is expected to grow during the forecast period, owing to the uses in various applications, including panel assembly, filtration, door, flooring, & window applications. There has been a massive increase in air traffic due to affordable fares offered by low-cost airlines as the rise in air traffic leading to a rise in demand for newer aircraft and associated services, which drives the Aerospace Adhesive market.

Some market's key players are 3M, Beacon Adhesives, Inc., Bostik (Arkema), Cytec Industries, DELO Industrial Adhesives, Dow, DuPont, among others.

The North America dominated the Aerospace Adhesive market across the globe, with the most significant consumption from the countries. The growing aerospace industry globally is anticipated to increase in OEM end-user industry. Uses of combined nanotubes and nano additives with epoxy adhesive are likely to act as an opportunity in the future. Space rafts and satellites withstand extreme temperatures & high vacuum conditions due to bonding products used in spaceborne equipment needed to fight the environment and government, leading space agencies such as NASA to require adhesive. There is a surge in a market demand for an adhesive that can provide low outgassing resistance to shallow & high temperature, thermal conductivity, and cryogenic serviceability in a space environment. The water-based segment is attributed to witnessing the highest growth in the market for aerospace adhesives as a recent breakthrough in technologies with the development of novel & compelling compositions of water systems have surpassed set by solvent-based technologies. Growing concern over reducing volatile organic compounds (VOC) emissions in the aerospace adhesive has led to the sheer interest in environment-friendly water-based adhesive technologies.

On October 19, 2021 ---Teijin Limited announced that its carbon-fiber subsidiary Renegade Materials Corporation, a leading U.S.-based supplier of high heat-resistant thermoset prepregs, resins, and adhesives for the aerospace industry, will expand its prepreg production by 2.5 times approximately. Operation of the new production lines will commence in January 2022.

Global Aerospace Adhesives Market report provides deep insight into the Industrial market's current and future state across various regions. The study comprehensively analyses the Aerospace Adhesives Market by segmenting based on Resin Type (Epoxy, Silicone, Polyurethane, Others), Technology (Solvent-Based, Water-Based), End-User Industries (Commercial, Military, General Aviation). The report examines the

market drivers and restraints and the impact of Covid-19 on the market growth in detail. The study covers and includes emerging market trends, development, opportunities, and challenges in the industry. This report also covers extensively researched competitive landscape sections with prominent companies and profiles, including their market shares and projects.

Contents

1. Executive Summary

2. Research Scope and Methodology

- 2.1 Aim & Objective of the study
- 2.2 Market Definition
- 2.3 Study Information
- 2.4 General Study Assumptions
- 2.5 Research Phases

3. Market Analysis

- 3.1 Introduction
- 3.2 Market Dynamics
 - 3.2.1 Drivers
 - 3.2.2 Restraints
- 3.3 Market Trends & Developments
- 3.4 Market Opportunities
- 3.5 Regulatory Policies
- 3.6 Analysis of Covid-19 Impact

4. Industry Analysis

- 4.1 Supply Chain Analysis
- 4.2 Porter's Five Forces Analysis
 - 4.2.1 Competition in the Industry
 - 4.2.2 Potential of New Entrants into the Industry
 - 4.2.3 Bargaining Power of Suppliers
 - 4.2.4 Bargaining Power of Consumers
 - 4.2.5 Threat of substitute products

5. Market Segmentation & Forecast

- 5.1 By Resin Type
 - 5.1.1 Epoxy
 - 5.1.2 Silicone
 - 5.1.3 Polyurethane
 - 5.1.4 Others
- 5.2 By Functional Type
 - 5.2.1 Structural

- 5.2.2 Non-Structural
- 5.3 By Technology
 - 5.3.1 Solvent Based
 - 5.3.2 Water Based
- 5.4 By End-User Industries
 - 5.4.1 Commercial
 - 5.4.2 Military
 - 5.4.3 General Aviation
 - 5.4.4 Others

Regional Market Analysis

- 6.1 North America
 - 6.1.1 United States
 - 6.1.2 Canada
 - 6.1.3 Mexico
- 6.2 Europe
 - 6.2.1 Germany
 - 6.2.2 United Kingdom
 - 6.2.3 Italy
 - 6.2.4 France
 - 6.2.5 Spain
 - 6.2.6 Rest of Europe
- 6.3 Asia-Pacific
 - 6.3.1 China
 - 6.3.2 India
 - 6.3.3 Japan
 - 6.3.4 South Korea
 - 6.3.5 Rest of Asia-Pacific
- 6.4 South America
 - 6.4.1 Brazil
 - 6.4.2 Argentina
 - 6.4.3 Rest of South America
- 6.5 Middle East & Africa
 - 6.5.1 South Africa
 - 6.5.2 Saudi Arabia
 - 6.5.3 Rest of Middle East & Africa

Company Profiles

con Adhesives
tik (Arkema)
ec Industries
O Industrial Adhesives

ont
ax Corporation
AG
B. Fuller
nkel AG & Co. KGaA
rnon Manufacturing, INC

xcel
ntsman Corporation
lomar Limited* *List of companies is not exhaustive*

Competitive Landscape

of Notable Players in the Market
A, JV, and Agreements
ket Share Analysis
tegies of Key Players

Conclusions and Recommendations

List Of Tables

LIST OF TABLES

Global Aerospace Adhesives Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

North America Aerospace Adhesives Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

United States Aerospace Adhesives Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

Canada Aerospace Adhesives Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

Mexico Aerospace Adhesives Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

Europe Aerospace Adhesives Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

United Kingdom Aerospace Adhesives Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

Germany Aerospace Adhesives Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

Italy Aerospace Adhesives Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

France Aerospace Adhesives Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

Other Supporting Charts

Rest of Europe Aerospace Adhesives Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

South America Aerospace Adhesives Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

Brazil Aerospace Adhesives Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

Argentina Aerospace Adhesives Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

Rest of South America Aerospace Adhesives Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

Asia-Pacific Aerospace Adhesives Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

China Aerospace Adhesives Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

India Aerospace Adhesives Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

Japan Aerospace Adhesives Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

South Korea Aerospace Adhesives Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

Rest of Asia-Pacific Aerospace Adhesives Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

Middle East & Africa Aerospace Adhesives Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

Saudi Arabia Aerospace Adhesives Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

South Africa Aerospace Adhesives Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

Rest of Middle-East & Africa Aerospace Adhesives Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

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