

Aerospace Adhesives Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

Market Report | 2023-07-05 | 147 pages | IMARC Group

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Report description:

Market Overview:

The global aerospace adhesives market size reached US\$ 656.9 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 903.2 Million by 2028, exhibiting a growth rate (CAGR) of 5% during 2023-2028.

Aerospace adhesives are used for structural sealant purposes in the interior, exterior, engine compartment, and other components of aircraft, such as transducer seals, fuel assemblies, electronic assemblies, metal and fiber composites, antennas, optical fibers, and sensors. These adhesives provide high bond strength, resistance to cyclic fatigue, excellent peel strength, superior durability and toughness, exceptional compressive strength, and high glass transition temperatures. They also improve the distribution of stresses over bonded joints, protect against corrosion, enhance aerodynamics, deliver smooth contours, save time, lower weight, and decrease costs. Presently, the most common substrates for aerospace adhesive bonding are wood, aluminum, titanium, stainless steel, and composite materials, such as bonded sandwich structures, fiber-reinforced plastic (FRP) laminates, and fiber metal laminates (FML).

Aerospace Adhesives Market Trends:

The increasing air passenger traffic worldwide, along with the rising focus on improving the performance of aircraft structures to ensure safe and reliable air travel, represents one of the key factors bolstering the market growth. Apart from this, increasing government spending on the modernization of military aircraft is driving the need for customized aerospace adhesives with exceptional characteristics. Besides this, aerospace adhesives are widely preferred over mechanical fasteners like bolts or screws to maintain structural integrity and weight factors and achieve certain aesthetic design or functional benefits. Moreover, manufacturers are offering innovative grades of aerospace adhesives that exhibit impact and micro-crack resistance, withstand numerous chemicals, and help sustain performance in extreme operating environments. These adhesives also have outstanding resistance to aviation gasoline, jet fuel, and petroleum products and offer excellent flexibility and strength to advanced

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composites and coatings. Such innovations are anticipated to provide a positive thrust to the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global aerospace adhesives market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on resin type, technology, function type and end use.

Breakup by Resin Type:

- Epoxy
- Polyurethane
- Silicone
- Others

Breakup by Technology:

- Waterborne
- Solvent-Borne
- Reactive

Breakup by Function Type:

- Structural
- Non-Structural

Breakup by End Use:

- Original Equipment Manufacturer (OEM)
- Maintenance Repair and Operations (MRO)

Breakup by Region:

- North America
 - United States
 - Canada
- Asia-Pacific
 - China
 - Japan
 - India
 - South Korea
 - Australia
 - Indonesia
 - Others
- Europe
 - Germany
 - France
 - United Kingdom

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Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being 3M Company, Adheteq, Arkema S.A., H.B. Fuller Company, Henkel AG & Co. KGaA, Hexcel Corporation, Huntsman Corporation, Hybond Technology Group Limited, Hylomar Ltd., Illinois Tool Works Inc, L&L Products, Permabond LLC and PPG Industries Inc.

Key Questions Answered in This Report:

How has the global aerospace adhesives market performed so far and how will it perform in the coming years?
What has been the impact of COVID-19 on the global aerospace adhesives market?
What are the key regional markets?
What is the breakup of the market based on the resin type?
What is the breakup of the market based on the technology?
What is the breakup of the market based on the function type?
What is the breakup of the market based on the end use?
What are the various stages in the value chain of the industry?
What are the key driving factors and challenges in the industry?
What is the structure of the global aerospace adhesives market and who are the key players?
What is the degree of competition in the industry?

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