

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

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Abstracts

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 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

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, Adhetec, 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?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL AEROSPACE ADHESIVES MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY RESIN TYPE

- 6.1 Epoxy
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Polyurethane
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 Silicone

- 6.3.1 Market Trends
- 6.3.2 Market Forecast
- 6.4 Others
 - 6.4.1 Market Trends
 - 6.4.2 Market Forecast

7 MARKET BREAKUP BY TECHNOLOGY

- 7.1 Waterborne
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 Solvent-Borne
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 7.3 Reactive
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast

8 MARKET BREAKUP BY FUNCTION TYPE

- 8.1 Structural
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 Non-Structural
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast

9 MARKET BREAKUP BY END USE

- 9.1 Original Equipment Manufacturer (OEM)
 - 9.1.1 Market Trends
 - 9.1.2 Market Forecast
- 9.2 Maintenance Repair and Operations (MRO)
 - 9.2.1 Market Trends
 - 9.2.2 Market Forecast

10 MARKET BREAKUP BY REGION

- 10.1 North America

- 10.1.1 United States
 - 10.1.1.1 Market Trends
 - 10.1.1.2 Market Forecast
- 10.1.2 Canada
 - 10.1.2.1 Market Trends
 - 10.1.2.2 Market Forecast
- 10.2 Asia-Pacific
 - 10.2.1 China
 - 10.2.1.1 Market Trends
 - 10.2.1.2 Market Forecast
 - 10.2.2 Japan
 - 10.2.2.1 Market Trends
 - 10.2.2.2 Market Forecast
 - 10.2.3 India
 - 10.2.3.1 Market Trends
 - 10.2.3.2 Market Forecast
 - 10.2.4 South Korea
 - 10.2.4.1 Market Trends
 - 10.2.4.2 Market Forecast
 - 10.2.5 Australia
 - 10.2.5.1 Market Trends
 - 10.2.5.2 Market Forecast
 - 10.2.6 Indonesia
 - 10.2.6.1 Market Trends
 - 10.2.6.2 Market Forecast
 - 10.2.7 Others
 - 10.2.7.1 Market Trends
 - 10.2.7.2 Market Forecast
- 10.3 Europe
 - 10.3.1 Germany
 - 10.3.1.1 Market Trends
 - 10.3.1.2 Market Forecast
 - 10.3.2 France
 - 10.3.2.1 Market Trends
 - 10.3.2.2 Market Forecast
 - 10.3.3 United Kingdom
 - 10.3.3.1 Market Trends
 - 10.3.3.2 Market Forecast
 - 10.3.4 Italy

- 10.3.4.1 Market Trends
- 10.3.4.2 Market Forecast
- 10.3.5 Spain
 - 10.3.5.1 Market Trends
 - 10.3.5.2 Market Forecast
- 10.3.6 Russia
 - 10.3.6.1 Market Trends
 - 10.3.6.2 Market Forecast
- 10.3.7 Others
 - 10.3.7.1 Market Trends
 - 10.3.7.2 Market Forecast
- 10.4 Latin America
 - 10.4.1 Brazil
 - 10.4.1.1 Market Trends
 - 10.4.1.2 Market Forecast
 - 10.4.2 Mexico
 - 10.4.2.1 Market Trends
 - 10.4.2.2 Market Forecast
 - 10.4.3 Others
 - 10.4.3.1 Market Trends
 - 10.4.3.2 Market Forecast
- 10.5 Middle East and Africa
 - 10.5.1 Market Trends
 - 10.5.2 Market Breakup by Country
 - 10.5.3 Market Forecast

11 SWOT ANALYSIS

- 11.1 Overview
- 11.2 Strengths
- 11.3 Weaknesses
- 11.4 Opportunities
- 11.5 Threats

12 VALUE CHAIN ANALYSIS

13 PORTERS FIVE FORCES ANALYSIS

- 13.1 Overview

- 13.2 Bargaining Power of Buyers
- 13.3 Bargaining Power of Suppliers
- 13.4 Degree of Competition
- 13.5 Threat of New Entrants
- 13.6 Threat of Substitutes

14 PRICE ANALYSIS

15 COMPETITIVE LANDSCAPE

- 15.1 Market Structure
- 15.2 Key Players
- 15.3 Profiles of Key Players
 - 15.3.1 3M Company
 - 15.3.1.1 Company Overview
 - 15.3.1.2 Product Portfolio
 - 15.3.1.3 Financials
 - 15.3.2 Adhetec
 - 15.3.2.1 Company Overview
 - 15.3.2.2 Product Portfolio
 - 15.3.3 Arkema S.A.
 - 15.3.3.1 Company Overview
 - 15.3.3.2 Product Portfolio
 - 15.3.3.3 Financials
 - 15.3.3.4 SWOT Analysis
 - 15.3.4 H.B. Fuller Company
 - 15.3.4.1 Company Overview
 - 15.3.4.2 Product Portfolio
 - 15.3.4.3 Financials
 - 15.3.4.4 SWOT Analysis
 - 15.3.5 Henkel AG & Co. KGaA
 - 15.3.5.1 Company Overview
 - 15.3.5.2 Product Portfolio
 - 15.3.5.3 Financials
 - 15.3.5.4 SWOT Analysis
 - 15.3.6 Hexcel Corporation
 - 15.3.6.1 Company Overview
 - 15.3.6.2 Product Portfolio
 - 15.3.6.3 Financials

- 15.3.6.4 SWOT Analysis
- 15.3.7 Huntsman Corporation
 - 15.3.7.1 Company Overview
 - 15.3.7.2 Product Portfolio
 - 15.3.7.3 Financials
 - 15.3.7.4 SWOT Analysis
- 15.3.8 Hybond Technology Group Limited
 - 15.3.8.1 Company Overview
 - 15.3.8.2 Product Portfolio
- 15.3.9 Hylomar Ltd.
 - 15.3.9.1 Company Overview
 - 15.3.9.2 Product Portfolio
- 15.3.10 Illinois Tool Works Inc
 - 15.3.10.1 Company Overview
 - 15.3.10.2 Product Portfolio
 - 15.3.10.3 Financials
 - 15.3.10.4 SWOT Analysis
- 15.3.11 L&L Products
 - 15.3.11.1 Company Overview
 - 15.3.11.2 Product Portfolio
- 15.3.12 Permabond LLC
 - 15.3.12.1 Company Overview
 - 15.3.12.2 Product Portfolio
- 15.3.13 PPG Industries Inc.
 - 15.3.13.1 Company Overview
 - 15.3.13.2 Product Portfolio
 - 15.3.13.3 Financials
 - 15.3.13.4 SWOT Analysis

List Of Tables

LIST OF TABLES

Table 1: Global: Aerospace Adhesives Market: Key Industry Highlights, 2022 and 2028

Table 2: Global: Aerospace Adhesives Market Forecast: Breakup by Resin Type (in Million US\$), 2023-2028

Table 3: Global: Aerospace Adhesives Market Forecast: Breakup by Technology (in Million US\$), 2023-2028

Table 4: Global: Aerospace Adhesives Market Forecast: Breakup by Function Type (in Million US\$), 2023-2028

Table 5: Global: Aerospace Adhesives Market Forecast: Breakup by End Use (in Million US\$), 2023-2028

Table 6: Global: Aerospace Adhesives Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 7: Global: Aerospace Adhesives Market: Competitive Structure

Table 8: Global: Aerospace Adhesives Market: Key Players

List Of Figures

LIST OF FIGURES

- Figure 1: Global: Aerospace Adhesives Market: Major Drivers and Challenges
- Figure 2: Global: Aerospace Adhesives Market: Sales Value (in Million US\$), 2017-2022
- Figure 3: Global: Aerospace Adhesives Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 4: Global: Aerospace Adhesives Market: Breakup by Resin Type (in %), 2022
- Figure 5: Global: Aerospace Adhesives Market: Breakup by Technology (in %), 2022
- Figure 6: Global: Aerospace Adhesives Market: Breakup by Function Type (in %), 2022
- Figure 7: Global: Aerospace Adhesives Market: Breakup by End Use (in %), 2022
- Figure 8: Global: Aerospace Adhesives Market: Breakup by Region (in %), 2022
- Figure 9: Global: Aerospace Adhesives (Epoxy) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 10: Global: Aerospace Adhesives (Epoxy) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 11: Global: Aerospace Adhesives (Polyurethane) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 12: Global: Aerospace Adhesives (Polyurethane) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 13: Global: Aerospace Adhesives (Silicone) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 14: Global: Aerospace Adhesives (Silicone) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 15: Global: Aerospace Adhesives (Other Resin Types) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 16: Global: Aerospace Adhesives (Other Resin Types) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 17: Global: Aerospace Adhesives (Waterborne) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 18: Global: Aerospace Adhesives (Waterborne) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 19: Global: Aerospace Adhesives (Solvent-Borne) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 20: Global: Aerospace Adhesives (Solvent-Borne) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 21: Global: Aerospace Adhesives (Reactive) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 22: Global: Aerospace Adhesives (Reactive) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 23: Global: Aerospace Adhesives (Structural) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 24: Global: Aerospace Adhesives (Structural) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 25: Global: Aerospace Adhesives (Non-Structural) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 26: Global: Aerospace Adhesives (Non-Structural) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 27: Global: Aerospace Adhesives (Original Equipment Manufacturer (OEM)) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 28: Global: Aerospace Adhesives (Original Equipment Manufacturer (OEM)) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 29: Global: Aerospace Adhesives (Maintenance Repair and Operations (MRO)) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 30: Global: Aerospace Adhesives (Maintenance Repair and Operations (MRO)) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 31: North America: Aerospace Adhesives Market: Sales Value (in Million US\$), 2017 & 2022

Figure 32: North America: Aerospace Adhesives Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 33: United States: Aerospace Adhesives Market: Sales Value (in Million US\$), 2017 & 2022

Figure 34: United States: Aerospace Adhesives Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 35: Canada: Aerospace Adhesives Market: Sales Value (in Million US\$), 2017 & 2022

Figure 36: Canada: Aerospace Adhesives Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 37: Asia-Pacific: Aerospace Adhesives Market: Sales Value (in Million US\$), 2017 & 2022

Figure 38: Asia-Pacific: Aerospace Adhesives Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 39: China: Aerospace Adhesives Market: Sales Value (in Million US\$), 2017 & 2022

Figure 40: China: Aerospace Adhesives Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 41: Japan: Aerospace Adhesives Market: Sales Value (in Million US\$), 2017 &

2022

Figure 42: Japan: Aerospace Adhesives Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 43: India: Aerospace Adhesives Market: Sales Value (in Million US\$), 2017 & 2022

Figure 44: India: Aerospace Adhesives Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 45: South Korea: Aerospace Adhesives Market: Sales Value (in Million US\$), 2017 & 2022

Figure 46: South Korea: Aerospace Adhesives Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 47: Australia: Aerospace Adhesives Market: Sales Value (in Million US\$), 2017 & 2022

Figure 48: Australia: Aerospace Adhesives Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 49: Indonesia: Aerospace Adhesives Market: Sales Value (in Million US\$), 2017 & 2022

Figure 50: Indonesia: Aerospace Adhesives Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 51: Others: Aerospace Adhesives Market: Sales Value (in Million US\$), 2017 & 2022

Figure 52: Others: Aerospace Adhesives Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 53: Europe: Aerospace Adhesives Market: Sales Value (in Million US\$), 2017 & 2022

Figure 54: Europe: Aerospace Adhesives Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 55: Germany: Aerospace Adhesives Market: Sales Value (in Million US\$), 2017 & 2022

Figure 56: Germany: Aerospace Adhesives Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 57: France: Aerospace Adhesives Market: Sales Value (in Million US\$), 2017 & 2022

Figure 58: France: Aerospace Adhesives Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 59: United Kingdom: Aerospace Adhesives Market: Sales Value (in Million US\$), 2017 & 2022

Figure 60: United Kingdom: Aerospace Adhesives Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 61: Italy: Aerospace Adhesives Market: Sales Value (in Million US\$), 2017 & 2022

Figure 62: Italy: Aerospace Adhesives Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 63: Spain: Aerospace Adhesives Market: Sales Value (in Million US\$), 2017 & 2022

Figure 64: Spain: Aerospace Adhesives Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 65: Russia: Aerospace Adhesives Market: Sales Value (in Million US\$), 2017 & 2022

Figure 66: Russia: Aerospace Adhesives Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 67: Others: Aerospace Adhesives Market: Sales Value (in Million US\$), 2017 & 2022

Figure 68: Others: Aerospace Adhesives Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 69: Latin America: Aerospace Adhesives Market: Sales Value (in Million US\$), 2017 & 2022

Figure 70: Latin America: Aerospace Adhesives Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 71: Brazil: Aerospace Adhesives Market: Sales Value (in Million US\$), 2017 & 2022

Figure 72: Brazil: Aerospace Adhesives Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 73: Mexico: Aerospace Adhesives Market: Sales Value (in Million US\$), 2017 & 2022

Figure 74: Mexico: Aerospace Adhesives Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 75: Others: Aerospace Adhesives Market: Sales Value (in Million US\$), 2017 & 2022

Figure 76: Others: Aerospace Adhesives Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 77: Middle East and Africa: Aerospace Adhesives Market: Sales Value (in Million US\$), 2017 & 2022

Figure 78: Middle East and Africa: Aerospace Adhesives Market: Breakup by Country (in %), 2022

Figure 79: Middle East and Africa: Aerospace Adhesives Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 80: Global: Aerospace Adhesives Industry: SWOT Analysis

Figure 81: Global: Aerospace Adhesives Industry: Value Chain Analysis

Figure 82: Global: Aerospace Adhesives Industry: Porter's Five Forces Analysis

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