

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

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Abstracts

The global aerospace materials market size reached US\$ 23.9 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 32.0 Billion by 2028, exhibiting a growth rate (CAGR) of 4.7% during 2023-2028.

Aerospace materials are metal alloys with high tensile strength, superior temperature tolerance, enhanced transparency and hard surface, which are used for different aerospace purposes. They comprise high-strength steels, composites, and aluminum and titanium alloys. They are lightweight and consequently help reduce global warming, environmental pollution, and fuel consumption. In addition, they assist in improving flight performance through better acceleration, higher structural strength and stiffness, and enhanced safety performance. As a result, aerospace materials find extensive applications in rotorcraft and commercial, military and space aircraft.

Aerospace Materials Market Trends:

At present, there is a rise in the demand for fuel-efficient and lightweight aircraft across the globe. This, along with the growing utilization of commercial aircraft to haul passengers and freight between selected airports, represents one of the key factors driving the market. Moreover, governments of several countries are extensively investing in the defense industry to enhance the function and structure of aircraft. This, coupled with the rising utilization of composites in aircraft manufacturing to provide high structural strength, is propelling the growth of the market. In addition, the escalating demand for single-aisle aircraft for commercial purposes is offering lucrative growth opportunities to key market players. Besides this, the growing utilization of unmanned aerial vehicles (UAVs) for real-time surveys, site surveillance, and making quick visits to collect data and information is positively influencing the market. Additionally, the

expanding aerospace industry due to increasing air traffic around the world is catalyzing the demand for aerospace materials. Apart from this, the rising usage of the internet of things (IoT) enabled sensing devices in aircraft functions, components, and the body is bolstering the market growth. Other growth-inducing factors are rising research and development (R&D) activities, rapid modernization, and technological advancements.

Key Market Segmentation:

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

Breakup by Type:

- Aluminium Alloys
- Titanium Alloys
- Super Alloys
- Steel Alloys
- Composite Materials

Breakup by Aircraft Type:

- Commercial Aircraft
- Business and General Aviation
- Helicopters

Breakup by Application:

- Interior
 - Passenger Seating
 - Galley
 - Interior Panels
 - Others
- Exterior
 - Propulsion Systems
 - Air Frame
 - Tail and Fin
 - Windows and Windshields

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 Allegheny Technologies Incorporated, Arkema S.A., BASF SE, DuPont de Nemours Inc., Hexcel Corporation, Kaiser Aluminum Corporation, Materion Corporation, Mitsubishi Chemical Holdings Corporation, Röchling SE & Co. KG, SGL Carbon SE, Solvay S.A., Sumitomo Bakelite Company Limited and Toray Industries Inc.

Key Questions Answered in This Report:

How has the global aerospace materials 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 materials market?

What are the key regional markets?

What is the breakup of the market based on the type?

What is the breakup of the market based on the aircraft type?

What is the breakup of the market based on the application?

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 materials 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 MATERIALS MARKET

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

6 MARKET BREAKUP BY TYPE

- 6.1 Aluminium Alloys
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Titanium Alloys
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 Super Alloys

- 6.3.1 Market Trends
- 6.3.2 Market Forecast
- 6.4 Steel Alloys
 - 6.4.1 Market Trends
 - 6.4.2 Market Forecast
- 6.5 Composite Materials
 - 6.5.1 Market Trends
 - 6.5.2 Market Forecast

7 MARKET BREAKUP BY AIRCRAFT TYPE

- 7.1 Commercial Aircraft
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 Business and General Aviation
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 7.3 Helicopters
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast

8 MARKET BREAKUP BY APPLICATION

- 8.1 Interior
 - 8.1.1 Market Trends
 - 8.1.2 Key Segments
 - 8.1.2.1 Passenger Seating
 - 8.1.2.2 Galley
 - 8.1.2.3 Interior Panels
 - 8.1.2.4 Others
 - 8.1.3 Market Forecast
- 8.2 Exterior
 - 8.2.1 Market Trends
 - 8.2.2 Key Segments
 - 8.2.2.1 Propulsion Systems
 - 8.2.2.2 Air Frame
 - 8.2.2.3 Tail and Fin
 - 8.2.2.4 Windows and Windshields
 - 8.2.3 Market Forecast

9 MARKET BREAKUP BY REGION

9.1 North America

9.1.1 United States

9.1.1.1 Market Trends

9.1.1.2 Market Forecast

9.1.2 Canada

9.1.2.1 Market Trends

9.1.2.2 Market Forecast

9.2 Asia-Pacific

9.2.1 China

9.2.1.1 Market Trends

9.2.1.2 Market Forecast

9.2.2 Japan

9.2.2.1 Market Trends

9.2.2.2 Market Forecast

9.2.3 India

9.2.3.1 Market Trends

9.2.3.2 Market Forecast

9.2.4 South Korea

9.2.4.1 Market Trends

9.2.4.2 Market Forecast

9.2.5 Australia

9.2.5.1 Market Trends

9.2.5.2 Market Forecast

9.2.6 Indonesia

9.2.6.1 Market Trends

9.2.6.2 Market Forecast

9.2.7 Others

9.2.7.1 Market Trends

9.2.7.2 Market Forecast

9.3 Europe

9.3.1 Germany

9.3.1.1 Market Trends

9.3.1.2 Market Forecast

9.3.2 France

9.3.2.1 Market Trends

9.3.2.2 Market Forecast

9.3.3 United Kingdom

9.3.3.1 Market Trends

9.3.3.2 Market Forecast

9.3.4 Italy

9.3.4.1 Market Trends

9.3.4.2 Market Forecast

9.3.5 Spain

9.3.5.1 Market Trends

9.3.5.2 Market Forecast

9.3.6 Russia

9.3.6.1 Market Trends

9.3.6.2 Market Forecast

9.3.7 Others

9.3.7.1 Market Trends

9.3.7.2 Market Forecast

9.4 Latin America

9.4.1 Brazil

9.4.1.1 Market Trends

9.4.1.2 Market Forecast

9.4.2 Mexico

9.4.2.1 Market Trends

9.4.2.2 Market Forecast

9.4.3 Others

9.4.3.1 Market Trends

9.4.3.2 Market Forecast

9.5 Middle East and Africa

9.5.1 Market Trends

9.5.2 Market Breakup by Country

9.5.3 Market Forecast

10 SWOT ANALYSIS

10.1 Overview

10.2 Strengths

10.3 Weaknesses

10.4 Opportunities

10.5 Threats

11 VALUE CHAIN ANALYSIS

12 PORTERS FIVE FORCES ANALYSIS

- 12.1 Overview
- 12.2 Bargaining Power of Buyers
- 12.3 Bargaining Power of Suppliers
- 12.4 Degree of Competition
- 12.5 Threat of New Entrants
- 12.6 Threat of Substitutes

13 PRICE ANALYSIS

14 COMPETITIVE LANDSCAPE

- 14.1 Market Structure
- 14.2 Key Players
- 14.3 Profiles of Key Players
 - 14.3.1 Allegheny Technologies Incorporated
 - 14.3.1.1 Company Overview
 - 14.3.1.2 Product Portfolio
 - 14.3.1.3 Financials
 - 14.3.2 Arkema S.A.
 - 14.3.2.1 Company Overview
 - 14.3.2.2 Product Portfolio
 - 14.3.2.3 Financials
 - 14.3.2.4 SWOT Analysis
 - 14.3.3 BASF SE
 - 14.3.3.1 Company Overview
 - 14.3.3.2 Product Portfolio
 - 14.3.3.3 Financials
 - 14.3.3.4 SWOT Analysis
 - 14.3.4 DuPont de Nemours Inc.
 - 14.3.4.1 Company Overview
 - 14.3.4.2 Product Portfolio
 - 14.3.4.3 Financials
 - 14.3.4.4 SWOT Analysis
 - 14.3.5 Hexcel Corporation
 - 14.3.5.1 Company Overview
 - 14.3.5.2 Product Portfolio

- 14.3.5.3 Financials
- 14.3.5.4 SWOT Analysis
- 14.3.6 Kaiser Aluminum Corporation
 - 14.3.6.1 Company Overview
 - 14.3.6.2 Product Portfolio
 - 14.3.6.3 Financials
 - 14.3.6.4 SWOT Analysis
- 14.3.7 Materion Corporation
 - 14.3.7.1 Company Overview
 - 14.3.7.2 Product Portfolio
 - 14.3.7.3 Financials
 - 14.3.7.4 SWOT Analysis
- 14.3.8 Mitsubishi Chemical Holdings Corporation
 - 14.3.8.1 Company Overview
 - 14.3.8.2 Product Portfolio
 - 14.3.8.3 Financials
 - 14.3.8.4 SWOT Analysis
- 14.3.9 Röchling SE & Co. KG
 - 14.3.9.1 Company Overview
 - 14.3.9.2 Product Portfolio
- 14.3.10 SGL Carbon SE
 - 14.3.10.1 Company Overview
 - 14.3.10.2 Product Portfolio
 - 14.3.10.3 Financials
 - 14.3.10.4 SWOT Analysis
- 14.3.11 Solvay S.A.
 - 14.3.11.1 Company Overview
 - 14.3.11.2 Product Portfolio
 - 14.3.11.3 Financials
 - 14.3.11.4 SWOT Analysis
- 14.3.12 Sumitomo Bakelite Company Limited
 - 14.3.12.1 Company Overview
 - 14.3.12.2 Product Portfolio
 - 14.3.12.3 Financials
 - 14.3.12.4 SWOT Analysis
- 14.3.13 Toray Industries Inc.
 - 14.3.13.1 Company Overview
 - 14.3.13.2 Product Portfolio
 - 14.3.13.3 Financials

14.3.13.4 SWOT Analysis

List Of Tables

LIST OF TABLES

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

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

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

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

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

Table 6: Global: Aerospace Materials Market: Competitive Structure

Table 7: Global: Aerospace Materials Market: Key Players

List Of Figures

LIST OF FIGURES

- Figure 1: Global: Aerospace Materials Market: Major Drivers and Challenges
- Figure 2: Global: Aerospace Materials Market: Sales Value (in Billion US\$), 2017-2022
- Figure 3: Global: Aerospace Materials Market Forecast: Sales Value (in Billion US\$), 2023-2028
- Figure 4: Global: Aerospace Materials Market: Breakup by Type (in %), 2022
- Figure 5: Global: Aerospace Materials Market: Breakup by Aircraft Type (in %), 2022
- Figure 6: Global: Aerospace Materials Market: Breakup by Application (in %), 2022
- Figure 7: Global: Aerospace Materials Market: Breakup by Region (in %), 2022
- Figure 8: Global: Aerospace Materials (Aluminium Alloys) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 9: Global: Aerospace Materials (Aluminium Alloys) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 10: Global: Aerospace Materials (Titanium Alloys) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 11: Global: Aerospace Materials (Titanium Alloys) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 12: Global: Aerospace Materials (Super Alloys) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 13: Global: Aerospace Materials (Super Alloys) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 14: Global: Aerospace Materials (Steel Alloys) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 15: Global: Aerospace Materials (Steel Alloys) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 16: Global: Aerospace Materials (Composite Materials) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 17: Global: Aerospace Materials (Composite Materials) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 18: Global: Aerospace Materials (Commercial Aircraft) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 19: Global: Aerospace Materials (Commercial Aircraft) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 20: Global: Aerospace Materials (Business and General Aviation) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 21: Global: Aerospace Materials (Business and General Aviation) Market

Forecast: Sales Value (in Million US\$), 2023-2028

Figure 22: Global: Aerospace Materials (Helicopters) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 23: Global: Aerospace Materials (Helicopters) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 24: Global: Aerospace Materials (Interior) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 25: Global: Aerospace Materials (Interior) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 26: Global: Aerospace Materials (Exterior) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 27: Global: Aerospace Materials (Exterior) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 28: North America: Aerospace Materials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 29: North America: Aerospace Materials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 30: United States: Aerospace Materials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 31: United States: Aerospace Materials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 32: Canada: Aerospace Materials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 33: Canada: Aerospace Materials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 34: Asia-Pacific: Aerospace Materials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 35: Asia-Pacific: Aerospace Materials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 36: China: Aerospace Materials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 37: China: Aerospace Materials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 38: Japan: Aerospace Materials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 39: Japan: Aerospace Materials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 40: India: Aerospace Materials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 41: India: Aerospace Materials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 42: South Korea: Aerospace Materials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 43: South Korea: Aerospace Materials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 44: Australia: Aerospace Materials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 45: Australia: Aerospace Materials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 46: Indonesia: Aerospace Materials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 47: Indonesia: Aerospace Materials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 48: Others: Aerospace Materials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 49: Others: Aerospace Materials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 50: Europe: Aerospace Materials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 51: Europe: Aerospace Materials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 52: Germany: Aerospace Materials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 53: Germany: Aerospace Materials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 54: France: Aerospace Materials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 55: France: Aerospace Materials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 56: United Kingdom: Aerospace Materials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 57: United Kingdom: Aerospace Materials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 58: Italy: Aerospace Materials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 59: Italy: Aerospace Materials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 60: Spain: Aerospace Materials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 61: Spain: Aerospace Materials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 62: Russia: Aerospace Materials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 63: Russia: Aerospace Materials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 64: Others: Aerospace Materials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 65: Others: Aerospace Materials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 66: Latin America: Aerospace Materials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 67: Latin America: Aerospace Materials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 68: Brazil: Aerospace Materials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 69: Brazil: Aerospace Materials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 70: Mexico: Aerospace Materials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 71: Mexico: Aerospace Materials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 72: Others: Aerospace Materials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 73: Others: Aerospace Materials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 74: Middle East and Africa: Aerospace Materials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 75: Middle East and Africa: Aerospace Materials Market: Breakup by Country (in %), 2022

Figure 76: Middle East and Africa: Aerospace Materials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 77: Global: Aerospace Materials Industry: SWOT Analysis

Figure 78: Global: Aerospace Materials Industry: Value Chain Analysis

Figure 79: Global: Aerospace Materials Industry: Porter's Five Forces Analysis

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