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Aerospace Raw Materials Market By Application (Military Aircraft, Commercial Aircraft, Business and General Aviation), By Material (Aluminum Alloys, Steel Alloys, Titanium Alloys, Composite Materials, Super Alloys, Others): Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

The global aerospace raw materials market was valued at $38.2 Billion in 2023, and is projected to reach $75.6 Billion by 2033, registering a CAGR of 7.5% from 2023 to 2033.

Aerospace materials refer to specialized substances utilized in the design and production of aircraft and spacecraft. These materials are selected for their unique properties, which enable them to withstand the extreme conditions encountered in aerospace environments, such as elevated altitudes, rapid temperature changes, and exposure to significant speeds and forces. Metals such as aluminium, titanium, and various steel alloys play a crucial role in the composition of aircraft materials.

In addition, aerospace materials are vital in the creation of thermal protection systems (TPS) for spacecraft during re-entry and high-velocity flight. Materials such as composites, ceramic tiles, ablative substances, are employed to manage the extreme heat generated during re-entry into the Earth's atmosphere or due to atmospheric friction at high speeds. Ceramic tiles are particularly effective as they offer heat resistance and thermal insulation for spacecraft surfaces, which is essential for protection against temperatures reaching thousands of degrees Celsius.

The demand for materials that are lighter, stronger, and more efficient is expected to

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drive significant advancements in aircraft materials in the future. Currently, aerospace materials such as aluminium, titanium, and composites are widely used due to their excellent strength-to-weight ratio and durability. In the future, there will be an increasing focus on the development of new materials that exhibit even greater performance capabilities. Emerging materials such as advanced ceramic matrix composites (CMCs), metal-matrix composites (MMCs), and graphene-based materials are poised to revolutionize the aerospace sector. These next-generation materials are expected to offer enhanced heat resistance, improved fatigue life, and greater structural integrity under extreme conditions, making them ideal for high-performance applications in aircraft engines, fuselage structures, and space vehicles. Additionally, sustainable materials that minimize environmental impact, such as bio-based composites, are gaining attention as the industry strives for greener and more sustainable aviation solutions.

Moreover, advancements in material science and manufacturing technologies, including additive manufacturing (3D printing) and nanotechnology, are expected to play a pivotal role in the future of aerospace materials. These technologies enable the creation of complex, highly efficient components with optimized geometries that were previously impossible to manufacture using traditional methods. This will not only improve the performance of aircraft but also reduce production costs and lead times, ultimately driving innovation and growth in the aerospace industry.

The key players operating in the market include aerospace raw materials market players, such as Toray Industries, Inc., Arconic (Alcoa Corporation), ATI (Allegheny Technologies), Synesco, Constellium SE, AMG N.V., Hexcel, Materion, Dupoint, Kobe Steel Ltd.

Key Benefits For Stakeholders

This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the aerospace raw materials market analysis from 2023 to 2033 to identify the prevailing aerospace raw materials market opportunities.

The market research is offered along with information related to key drivers, restraints, and opportunities.

Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen

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their supplier-buyer network.

In-depth analysis of the aerospace raw materials market segmentation assists to determine the prevailing market opportunities.

Major countries in each region are mapped according to their revenue contribution to the global market.

Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.

The report includes the analysis of the regional as well as global aerospace raw materials market trends, key players, market segments, application areas, and market growth strategies.

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New Product Development/ Product Matrix of Key Players

Regulatory Guidelines

Additional company profiles with specific to client's interest

Historic market data

Key Market Segments

By Application

Military Aircraft

Commercial Aircraft

Business and General Aviation

By Material

Super Alloys

Others

Aluminum Alloys

Steel Alloys

Titanium Alloys

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Composite Materials

By Region

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

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Middle East

Africa

Key Market Players

AMG

Arconic

ATI

Constellium

DuPont

Hexcel Corporation

Kobe Steel Ltd.

Materion Corporation

Syensqo

TORAY INDUSTRIES, INC.

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Contents

CHAPTER 1: INTRODUCTION

1.1. Report description
1.2. Key market segments
1.3. Key benefits to the stakeholders
1.4. Research methodology
  1.4.1. Primary research
  1.4.2. Secondary research
  1.4.3. Analyst tools and models

CHAPTER 2: EXECUTIVE SUMMARY

2.1. CXO perspective

CHAPTER 3: MARKET OVERVIEW

3.1. Market definition and scope
3.2. Key findings
  3.2.1. Top impacting factors
  3.2.2. Top investment pockets
3.3. Porter’s five forces analysis
  3.3.1. Moderate bargaining power of suppliers
  3.3.2. High threat of new entrants
  3.3.3. Low to moderate threat of substitutes
  3.3.4. Moderate intensity of rivalry
  3.3.5. Moderate to high bargaining power of buyers
3.4. Market dynamics
  3.4.1. Drivers
    3.4.1.1. Rising Demand for Composites in Several Applications
    3.4.1.2. Surge in Need for Lightweight Materials
  3.4.2. Restraints
    3.4.2.1. Technological Issues May Hinder the Market Growth
  3.4.3. Opportunities
    3.4.3.1. Increasing Demand for Aeronautics

CHAPTER 4: AEROSPACE RAW MATERIALS MARKET, BY APPLICATION

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4.1. Overview
4.1.1. Market size and forecast
4.2. Military Aircraft
4.2.1. Key market trends, growth factors and opportunities
4.2.2. Market size and forecast, by region
4.2.3. Market share analysis by country
4.3. Commercial Aircraft
4.3.1. Key market trends, growth factors and opportunities
4.3.2. Market size and forecast, by region
4.3.3. Market share analysis by country
4.4. Business and General Aviation
4.4.1. Key market trends, growth factors and opportunities
4.4.2. Market size and forecast, by region
4.4.3. Market share analysis by country

CHAPTER 5: AEROSPACE RAW MATERIALS MARKET, BY MATERIAL

5.1. Overview
5.1.1. Market size and forecast
5.2. Aluminum Alloys
5.2.1. Key market trends, growth factors and opportunities
5.2.2. Market size and forecast, by region
5.2.3. Market share analysis by country
5.3. Steel Alloys
5.3.1. Key market trends, growth factors and opportunities
5.3.2. Market size and forecast, by region
5.3.3. Market share analysis by country
5.4. Titanium Alloys
5.4.1. Key market trends, growth factors and opportunities
5.4.2. Market size and forecast, by region
5.4.3. Market share analysis by country
5.5. Composite Materials
5.5.1. Key market trends, growth factors and opportunities
5.5.2. Market size and forecast, by region
5.5.3. Market share analysis by country
5.6. Super Alloys
5.6.1. Key market trends, growth factors and opportunities
5.6.2. Market size and forecast, by region
5.6.3. Market share analysis by country

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5.7. Others
5.7.1. Key market trends, growth factors and opportunities
5.7.2. Market size and forecast, by region
5.7.3. Market share analysis by country

CHAPTER 6: AEROSPACE RAW MATERIALS MARKET, BY REGION

6.1. Overview
6.1.1. Market size and forecast By Region
6.2. North America
6.2.1. Key market trends, growth factors and opportunities
6.2.2. Market size and forecast, by Application
6.2.3. Market size and forecast, by Material
6.2.4. Market size and forecast, by country
6.2.4.1. U.S.
6.2.4.1.1. Market size and forecast, by Application
6.2.4.1.2. Market size and forecast, by Material
6.2.4.2. Canada
6.2.4.2.1. Market size and forecast, by Application
6.2.4.2.2. Market size and forecast, by Material
6.2.4.3. Mexico
6.2.4.3.1. Market size and forecast, by Application
6.2.4.3.2. Market size and forecast, by Material
6.3. Europe
6.3.1. Key market trends, growth factors and opportunities
6.3.2. Market size and forecast, by Application
6.3.3. Market size and forecast, by Material
6.3.4. Market size and forecast, by country
6.3.4.1. UK
6.3.4.1.1. Market size and forecast, by Application
6.3.4.1.2. Market size and forecast, by Material
6.3.4.2. Germany
6.3.4.2.1. Market size and forecast, by Application
6.3.4.2.2. Market size and forecast, by Material
6.3.4.3. France
6.3.4.3.1. Market size and forecast, by Application
6.3.4.3.2. Market size and forecast, by Material
6.3.4.4. Rest of Europe
6.3.4.4.1. Market size and forecast, by Application

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6.3.4.4.2. Market size and forecast, by Material
6.4. Asia-Pacific
6.4.1. Key market trends, growth factors and opportunities
6.4.2. Market size and forecast, by Application
6.4.3. Market size and forecast, by Material
6.4.4. Market size and forecast, by country
6.4.4.1. China
6.4.4.1.1. Market size and forecast, by Application
6.4.4.1.2. Market size and forecast, by Material
6.4.4.2. Japan
6.4.4.2.1. Market size and forecast, by Application
6.4.4.2.2. Market size and forecast, by Material
6.4.4.3. India
6.4.4.3.1. Market size and forecast, by Application
6.4.4.3.2. Market size and forecast, by Material
6.4.4.4. South Korea
6.4.4.4.1. Market size and forecast, by Application
6.4.4.4.2. Market size and forecast, by Material
6.4.4.5. Rest of Asia-Pacific
6.4.4.5.1. Market size and forecast, by Application
6.4.4.5.2. Market size and forecast, by Material
6.5. LAMEA
6.5.1. Key market trends, growth factors and opportunities
6.5.2. Market size and forecast, by Application
6.5.3. Market size and forecast, by Material
6.5.4. Market size and forecast, by country
6.5.4.1. Latin America
6.5.4.1.1. Market size and forecast, by Application
6.5.4.1.2. Market size and forecast, by Material
6.5.4.2. Middle East
6.5.4.2.1. Market size and forecast, by Application
6.5.4.2.2. Market size and forecast, by Material
6.5.4.3. Africa
6.5.4.3.1. Market size and forecast, by Application
6.5.4.3.2. Market size and forecast, by Material

CHAPTER 7: COMPETITIVE LANDSCAPE

7.1. Introduction

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7.2. Top winning strategies
7.3. Product mapping of top 10 player
7.4. Competitive dashboard
7.5. Competitive heatmap
7.6. Top player positioning, 2023

CHAPTER 8: COMPANY PROFILES

8.1. TORAY INDUSTRIES, INC.
  8.1.1. Company overview
  8.1.2. Key executives
  8.1.3. Company snapshot
  8.1.4. Operating business segments
  8.1.5. Product portfolio
  8.1.6. Business performance
  8.1.7. Key strategic moves and developments
8.2. DuPont
  8.2.1. Company overview
  8.2.2. Key executives
  8.2.3. Company snapshot
  8.2.4. Operating business segments
  8.2.5. Product portfolio
  8.2.6. Business performance
  8.2.7. Key strategic moves and developments
8.3. Arconic
  8.3.1. Company overview
  8.3.2. Key executives
  8.3.3. Company snapshot
  8.3.4. Operating business segments
  8.3.5. Product portfolio
8.4. ATI
  8.4.1. Company overview
  8.4.2. Key executives
  8.4.3. Company snapshot
  8.4.4. Operating business segments
  8.4.5. Product portfolio
  8.4.6. Business performance
8.5. Syensqo
  8.5.1. Company overview

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8.5.2. Key executives
8.5.3. Company snapshot
8.5.4. Operating business segments
8.5.5. Product portfolio
8.5.6. Business performance
8.5.7. Key strategic moves and developments
8.6. Constellium
8.6.1. Company overview
8.6.2. Key executives
8.6.3. Company snapshot
8.6.4. Operating business segments
8.6.5. Product portfolio
8.6.6. Business performance
8.6.7. Key strategic moves and developments
8.7. Kobe Steel Ltd.
8.7.1. Company overview
8.7.2. Key executives
8.7.3. Company snapshot
8.7.4. Operating business segments
8.7.5. Product portfolio
8.7.6. Business performance
8.8. AMG
8.8.1. Company overview
8.8.2. Key executives
8.8.3. Company snapshot
8.8.4. Operating business segments
8.8.5. Product portfolio
8.8.6. Business performance
8.9. Hexcel Corporation
8.9.1. Company overview
8.9.2. Key executives
8.9.3. Company snapshot
8.9.4. Operating business segments
8.9.5. Product portfolio
8.9.6. Business performance
8.9.7. Key strategic moves and developments
8.10. Materion Corporation
8.10.1. Company overview
8.10.2. Key executives

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8.10.3. Company snapshot
8.10.4. Operating business segments
8.10.5. Product portfolio
8.10.6. Business performance

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