

South Korea Aerospace Composites Market Size, Share, Trends and Forecast by Fiber Type, Resin Type, Aircraft Type, Application, Manufacturing Process, and Region, 2026-2034

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Abstracts

The South Korea aerospace composites market size reached USD 481.1 Million in 2025 . The market is projected to reach USD 976.2 Million by 2034 , exhibiting a growth rate (CAGR) of 7.77% during 2026-2034 . At present, the development of next-generation unmanned aerial vehicles (UAVs) is catalyzing the demand for lightweight, durable, and high-performance materials. Besides this, as South Korea is enhancing its national defense capabilities, there is an increasing emphasis on advancing and modernizing fighter jets, helicopters, and reconnaissance planes. This is contributing to the expansion of the South Korea aerospace composites market share.

SOUTH KOREA AEROSPACE COMPOSITES MARKET TRENDS:

Thriving defense sector

As South Korea is strengthening its national defense capabilities, there is a growing focus on developing and upgrading fighter jets, helicopters, and surveillance aircraft. Aerospace composites play a significant role in achieving reduced weight, improved fuel efficiency, and higher structural integrity, which are critical for superior performance in defense operations. These materials offer resistance to harsh environments and reduce maintenance needs, making them ideal for long-term deployment in military applications. The defense sector also requires stealth capabilities and radar-absorbing materials, which composite technologies can deliver effectively. Domestic production of defense aircraft and collaboration with international aerospace and defense companies are further increasing the integration of composites into new platforms. Government

agencies are making investments and prioritizing material advancements, catalyzing composite demand. Additionally, efforts to enhance the export potential of defense products are motivating manufacturers to adopt competitive technologies, including composite materials. As South Korea continues to modernize its aerospace and defense fleet and infrastructure, the consistent need for high-performance materials is contributing to the expansion of the market in the country. As per the IMARC Group, the South Korea aerospace and defense market is set to attain USD 28.20 Billion by 2033, exhibiting a CAGR of 6.10% during 2025-2033.

Rising development of next-generation UAVs

The development of next-generation UAVs is fueling the South Korea aerospace composites market growth. As South Korea is expanding its focus on drone technology for defense, surveillance, agriculture, and logistics, the need for advanced materials that enhance flight efficiency is becoming more critical. Aerospace composites, including carbon fiber-reinforced polymers, provide exceptional strength-to-weight ratios and resistance to corrosion, making them suitable for UAV structures. These materials help improve fuel efficiency, extend flight time, and support stealth capabilities, which are essential for both military and commercial drones. Research institutions and private aerospace companies are collaborating to develop innovative UAV platforms using cutting-edge composite technologies. Government and private sector initiatives aimed at promoting UAV adoption and investment in defense modernization are also contributing to increased composite utilization. In February 2025, South Korea's Defense Development Agency (ADD) and Korean Air Aerospace Division (KAL-ASD) presented the nation's inaugural collaborative combat aircraft prototype, which they aimed to advance rapidly. ADD announced its goal to carry out the inaugural flight of the low observable wingman UAV. As the UAV industry is growing in scope and complexity, the reliance on advanced aerospace composites is intensifying.

SOUTH KOREA AEROSPACE COMPOSITES MARKET SEGMENTATION:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the country and regional levels for 2026-2034. Our report has categorized the market based on fiber type, resin type, aircraft type, application, and manufacturing process.

Fiber Type Insights:

Carbon Fiber Composites

Ceramic Fiber Composites

Glass Fiber Composites

Others

The report has provided a detailed breakup and analysis of the market based on the fiber type. This includes carbon fiber composites, ceramic fiber composites, glass fiber composites, and others.

Resin Type Insights:

Epoxy

Phenolic

Polyester

Polyimides

Thermoplastics

Ceramic and Metal Matrix

Others

A detailed breakup and analysis of the market based on the resin type have also been provided in the report. This includes epoxy, phenolic, polyester, polyimides, thermoplastics, ceramic and metal matrix, and others.

Aircraft Type Insights:

Commercial Aircraft

Business Aviation

Civil Helicopters

Military Aircraft and Helicopters

Others

The report has provided a detailed breakup and analysis of the market based on the aircraft type. This includes commercial aircraft, business aviation, civil helicopters, military aircraft and helicopters, and others.

Application Insights:

Interior Parts

Exterior Parts

A detailed breakup and analysis of the market based on the application have also been provided in the report. This includes interior parts and exterior parts.

Manufacturing Process Insights:

AFP/ATL

Layup

RTM/VARTM

Filament Winding

Others

The report has provided a detailed breakup and analysis of the market based on the manufacturing process. This includes AFP/ATL, layup, RTM/VARTM, filament winding, and others.

Regional Insights:

Seoul Capital Area

Yeongnam (Southeastern Region)

Honam (Southwestern Region)

Hoseo (Central Region)

Others

The report has also provided a comprehensive analysis of all the major regional markets, which include Seoul Capital Area, Yeongnam (Southeastern Region), Honam (Southwestern Region), Hoseo (Central Region), and others.

COMPETITIVE LANDSCAPE:

The market research report has also provided a comprehensive analysis of the competitive landscape. Competitive analysis such as market structure, key player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided.

KEY QUESTIONS ANSWERED IN THIS REPORT

How has the South Korea aerospace composites market performed so far and how will it perform in the coming years?

What is the breakup of the South Korea aerospace composites market on the basis of fiber type?

What is the breakup of the South Korea aerospace composites market on the basis of resin type?

What is the breakup of the South Korea aerospace composites market on the basis of aircraft type?

What is the breakup of the South Korea aerospace composites market on the basis of application?

What is the breakup of the South Korea aerospace composites market on the basis of manufacturing process?

What is the breakup of the South Korea aerospace composites market on the basis of region?

What are the various stages in the value chain of the South Korea aerospace

composites market?

What are the key driving factors and challenges in the South Korea aerospace composites market?

What is the structure of the South Korea aerospace composites market and who are the key players?

What is the degree of competition in the South Korea aerospace composites market?

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 SOUTH KOREA AEROSPACE COMPOSITES MARKET - INTRODUCTION

- 4.1 Overview
- 4.2 Market Dynamics
- 4.3 Industry Trends
- 4.4 Competitive Intelligence

5 SOUTH KOREA AEROSPACE COMPOSITES MARKET LANDSCAPE

- 5.1 Historical and Current Market Trends (2020-2025)
- 5.2 Market Forecast (2026-2034)

6 SOUTH KOREA AEROSPACE COMPOSITES MARKET - BREAKUP BY FIBER TYPE

- 6.1 Carbon Fiber Composites
 - 6.1.1 Overview
 - 6.1.2 Historical and Current Market Trends (2020-2025)
 - 6.1.3 Market Forecast (2026-2034)
- 6.2 Ceramic Fiber Composites
 - 6.2.1 Overview

6.2.2 Historical and Current Market Trends (2020-2025)

6.2.3 Market Forecast (2026-2034)

6.3 Glass Fiber Composites

6.3.1 Overview

6.3.2 Historical and Current Market Trends (2020-2025)

6.3.3 Market Forecast (2026-2034)

6.4 Others

6.4.1 Historical and Current Market Trends (2020-2025)

6.4.2 Market Forecast (2026-2034)

7 SOUTH KOREA AEROSPACE COMPOSITES MARKET - BREAKUP BY RESIN TYPE

7.1 Epoxy

7.1.1 Overview

7.1.2 Historical and Current Market Trends (2020-2025)

7.1.3 Market Forecast (2026-2034)

7.2 Phenolic

7.2.1 Overview

7.2.2 Historical and Current Market Trends (2020-2025)

7.2.3 Market Forecast (2026-2034)

7.3 Polyester

7.3.1 Overview

7.3.2 Historical and Current Market Trends (2020-2025)

7.3.3 Market Forecast (2026-2034)

7.4 Polyimides

7.4.1 Overview

7.4.2 Historical and Current Market Trends (2020-2025)

7.4.3 Market Forecast (2026-2034)

7.5 Thermoplastics

7.5.1 Overview

7.5.2 Historical and Current Market Trends (2020-2025)

7.5.3 Market Forecast (2026-2034)

7.6 Ceramic and Metal Matrix

7.6.1 Overview

7.6.2 Historical and Current Market Trends (2020-2025)

7.6.3 Market Forecast (2026-2034)

7.7 Others

7.7.1 Historical and Current Market Trends (2020-2025)

7.7.2 Market Forecast (2026-2034)

8 SOUTH KOREA AEROSPACE COMPOSITES MARKET - BREAKUP BY AIRCRAFT TYPE

8.1 Commercial Aircraft

8.1.1 Overview

8.1.2 Historical and Current Market Trends (2020-2025)

8.1.3 Market Forecast (2026-2034)

8.2 Business Aviation

8.2.1 Overview

8.2.2 Historical and Current Market Trends (2020-2025)

8.2.3 Market Forecast (2026-2034)

8.3 Civil Helicopters

8.3.1 Overview

8.3.2 Historical and Current Market Trends (2020-2025)

8.3.3 Market Forecast (2026-2034)

8.4 Military Aircraft and Helicopters

8.4.1 Overview

8.4.2 Historical and Current Market Trends (2020-2025)

8.4.3 Market Forecast (2026-2034)

8.5 Others

8.5.1 Historical and Current Market Trends (2020-2025)

8.5.2 Market Forecast (2026-2034)

9 SOUTH KOREA AEROSPACE COMPOSITES MARKET - BREAKUP BY APPLICATION

9.1 Interior Parts

9.1.1 Overview

9.1.2 Historical and Current Market Trends (2020-2025)

9.1.3 Market Forecast (2026-2034)

9.2 Exterior Parts

9.2.1 Overview

9.2.2 Historical and Current Market Trends (2020-2025)

9.2.3 Market Forecast (2026-2034)

10 SOUTH KOREA AEROSPACE COMPOSITES MARKET - BREAKUP BY MANUFACTURING PROCESS

10.1 AFP/ATL

10.1.1 Overview

10.1.2 Historical and Current Market Trends (2020-2025)

10.1.3 Market Forecast (2026-2034)

10.2 Layup

10.2.1 Overview

10.2.2 Historical and Current Market Trends (2020-2025)

10.2.3 Market Forecast (2026-2034)

10.3 RTM/VARTM

10.3.1 Overview

10.3.2 Historical and Current Market Trends (2020-2025)

10.3.3 Market Forecast (2026-2034)

10.4 Filament Winding

10.4.1 Overview

10.4.2 Historical and Current Market Trends (2020-2025)

10.4.3 Market Forecast (2026-2034)

10.5 Others

10.5.1 Historical and Current Market Trends (2020-2025)

10.5.2 Market Forecast (2026-2034)

11 SOUTH KOREA AEROSPACE COMPOSITES MARKET – BREAKUP BY REGION

11.1 Seoul Capital Area

11.1.1 Overview

11.1.2 Historical and Current Market Trends (2020-2025)

11.1.3 Market Breakup by Fiber Type

11.1.4 Market Breakup by Resin Type

11.1.5 Market Breakup by Aircraft Type

11.1.6 Market Breakup by Application

11.1.7 Market Breakup by Manufacturing Process

11.1.8 Key Players

11.1.9 Market Forecast (2026-2034)

11.2 Yeongnam (Southeastern Region)

11.2.1 Overview

11.2.2 Historical and Current Market Trends (2020-2025)

11.2.3 Market Breakup by Fiber Type

11.2.4 Market Breakup by Resin Type

11.2.5 Market Breakup by Aircraft Type

- 11.2.6 Market Breakup by Application
- 11.2.7 Market Breakup by Manufacturing Process
- 11.2.8 Key Players
- 11.2.9 Market Forecast (2026-2034)
- 11.3 Honam (Southwestern Region)
 - 11.3.1 Overview
 - 11.3.2 Historical and Current Market Trends (2020-2025)
 - 11.3.3 Market Breakup by Fiber Type
 - 11.3.4 Market Breakup by Resin Type
 - 11.3.5 Market Breakup by Aircraft Type
 - 11.3.6 Market Breakup by Application
 - 11.3.7 Market Breakup by Manufacturing Process
 - 11.3.8 Key Players
 - 11.3.9 Market Forecast (2026-2034)
- 11.4 Hoseo (Central Region)
 - 11.4.1 Overview
 - 11.4.2 Historical and Current Market Trends (2020-2025)
 - 11.4.3 Market Breakup by Fiber Type
 - 11.4.4 Market Breakup by Resin Type
 - 11.4.5 Market Breakup by Aircraft Type
 - 11.4.6 Market Breakup by Application
 - 11.4.7 Market Breakup by Manufacturing Process
 - 11.4.8 Key Players
 - 11.4.9 Market Forecast (2026-2034)
- 11.5 Others
 - 11.5.1 Historical and Current Market Trends (2020-2025)
 - 11.5.2 Market Forecast (2026-2034)

12 SOUTH KOREA AEROSPACE COMPOSITES MARKET – COMPETITIVE LANDSCAPE

- 12.1 Overview
- 12.2 Market Structure
- 12.3 Market Player Positioning
- 12.4 Top Winning Strategies
- 12.5 Competitive Dashboard
- 12.6 Company Evaluation Quadrant

13 PROFILES OF KEY PLAYERS

13.1 Company A

- 13.1.1 Business Overview
- 13.1.2 Products Offered
- 13.1.3 Business Strategies
- 13.1.4 SWOT Analysis
- 13.1.5 Major News and Events

13.2 Company B

- 13.2.1 Business Overview
- 13.2.2 Products Offered
- 13.2.3 Business Strategies
- 13.2.4 SWOT Analysis
- 13.2.5 Major News and Events

13.3 Company C

- 13.3.1 Business Overview
- 13.3.2 Products Offered
- 13.3.3 Business Strategies
- 13.3.4 SWOT Analysis
- 13.3.5 Major News and Events

13.4 Company D

- 13.4.1 Business Overview
- 13.4.2 Products Offered
- 13.4.3 Business Strategies
- 13.4.4 SWOT Analysis
- 13.4.5 Major News and Events

13.5 Company E

- 13.5.1 Business Overview
- 13.5.2 Products Offered
- 13.5.3 Business Strategies
- 13.5.4 SWOT Analysis
- 13.5.5 Major News and Events

14 SOUTH KOREA AEROSPACE COMPOSITES MARKET - INDUSTRY ANALYSIS

14.1 Drivers, Restraints, and Opportunities

- 14.1.1 Overview
- 14.1.2 Drivers
- 14.1.3 Restraints
- 14.1.4 Opportunities

14.2 Porters Five Forces Analysis

14.2.1 Overview

14.2.2 Bargaining Power of Buyers

14.2.3 Bargaining Power of Suppliers

14.2.4 Degree of Competition

14.2.5 Threat of New Entrants

14.2.6 Threat of Substitutes

14.3 Value Chain Analysis

15 APPENDIX

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