

United Kingdom Aerospace Carbon Fibre Market Report and Forecast 2024-2032

Market Report | 2024-06-20 | 176 pages | EMR Inc.

AVAILABLE LICENSES:

- Single User License \$2999.00
- Five User License \$3999.00
- Corporate License \$4999.00

Report description:

United Kingdom Aerospace Carbon Fibre Market Report and Forecast 2024-2032

Market outlook

According to the report by Expert Market Research (EMR), the United Kingdom aerospace carbon fibre market size is projected to further grow at a CAGR of 8.3% between 2024 and 2032. Aided by the increasing demand for lightweight and high-strength materials in aerospace applications and the growing adoption of carbon fibre composites in various aerospace components, the market is expected to significantly grow by 2032.

Carbon fibre is a high-strength, lightweight material known for its exceptional mechanical properties and resistance to fatigue and corrosion. In the aerospace sector, carbon fibre composites are used to manufacture various components, including fuselage sections, wings, tail assemblies, and interior parts. The material's superior strength-to-weight ratio significantly enhances aircraft performance, fuel efficiency, and overall durability, making it an invaluable component in modern aerospace engineering. The increasing demand for lightweight and high-strength materials in aerospace applications is driving the United Kingdom aerospace carbon fibre market growth. With the growing emphasis on fuel efficiency and reducing greenhouse gas emissions, there has been a significant shift towards using carbon fibre composites in aircraft manufacturing. Additionally, the rising trend of electric and hybrid aircraft has further contributed to the increasing popularity of carbon fibre, as it helps to offset the weight of batteries and electric propulsion systems.

In commercial aviation, carbon fibre composites are used to manufacture primary and secondary structures, contributing to weight reduction and improved fuel efficiency. In the defence sector, the material is employed in the production of military aircraft, drones, and unmanned aerial vehicles (UAVs), enhancing their performance and operational capabilities. Moreover, the space sector utilises carbon fibre composites in the construction of satellites, launch vehicles, and space exploration equipment, benefiting from the material's lightweight and high-strength properties.

Further, the growing focus on advanced manufacturing technologies has led to increased adoption of carbon fibre in the aerospace sector. Innovations in additive manufacturing, automated fibre placement (AFP), and resin transfer moulding (RTM) have enabled the production of complex carbon fibre components with improved precision and efficiency. This trend is expected to boost the United Kingdom aerospace carbon fibre market share.

The rising trend of electric and hybrid aircraft is driving the demand for carbon fibre composites. These aircraft require lightweight

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

materials to offset the weight of batteries and electric propulsion systems, making carbon fibre an essential component in their construction. The use of carbon fibre composites contributes to the overall efficiency and performance of electric and hybrid aircraft, supporting the transition to more sustainable aviation solutions.

The expansion of the space sector is a key driver of the market. Carbon fibre composites are widely used in the construction of satellites, launch vehicles, and space exploration equipment, benefiting from their lightweight and high-strength properties. The increasing number of space missions and the growing demand for satellite-based services are expected to boost the adoption of carbon fibre composites in the space sector.

As per the United Kingdom aerospace carbon fibre market analysis, continuous carbon fibre is used in the production of high-performance aerospace components, offering superior strength and stiffness. It is commonly employed in the manufacture of primary structures, such as fuselage sections and wings. Long carbon fibre provides a balance between performance and cost, making it suitable for a wide range of aerospace applications. It is used in secondary structures and interior components, contributing to weight reduction and improved fuel efficiency. Short carbon fibre is used in applications where high strength and stiffness are not the primary requirements. It is employed in the production of non-structural components, such as interior parts and accessories.

Market Segmentation □

The market can be divided based on material, type, application, and end use

Market Breakup by Material

- Pan Based
- Pitch Based

Market Breakup by Type

- Continuous Carbon Fibre
- Long Carbon Fibre
- Short Carbon Fibre

Market Breakup by Application

- Interior
 - o□Seat
 - o□Cabin
 - o□Sandwich Panel
 - o□Others
- Exterior
 - o□Wing
 - o□Rotor Blades
 - o□Tail Boom
 - o□Others

Market Breakup by End Use

- Commercial Aircraft
- Military Fixed-wing Aircraft
- Rotorcraft
- Others

Competitive landscape

The EMR report looks into the market shares, plant turnarounds, capacities, investments, and mergers and acquisitions, among other major developments, of the leading companies operating in United Kingdom aerospace carbon fibre market. some of the major players explored in the report by expert market research are as follows:

- Gen 2 Carbon Limited
- Crosby Composites Ltd.
- SGL Carbon Fibres Ltd.
- Hexcel Leicester

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- Carbon Technology Ltd
- Solvay S.A.
- DowAksa
- Toray Group
- Others

About us

Acquire unparalleled access to critical industry insights with our comprehensive market research reports, meticulously prepared by a team of seasoned experts. These reports are designed to equip decision-makers with an in-depth understanding of prevailing market trends, competitive landscapes, and growth opportunities.

Our high-quality, data-driven analysis provides the essential framework for organisations seeking to make informed and strategic decisions in an increasingly complex and rapidly evolving business environment. By investing in our market research reports, you can ensure your organisation remains agile, proactive, and poised for success in today's competitive market.

Don't miss the opportunity to elevate your business intelligence and strengthen your strategic planning. Secure your organisation's future success by acquiring one of our expert market research reports today.

*We at Expert Market Research always strive to provide you with the latest information. The numbers in the article are only indicative and may be different from the actual report.

Table of Contents:

- 1 Preface
- 2 Report Coverage - Key Segmentation and Scope
- 3 Report Description
 - 3.1 Market Definition and Outlook
 - 3.2 Properties and Applications
 - 3.3 Market Analysis
 - 3.4 Key Market Players
- 4 Key Assumptions
- 5 Executive Summary
 - 5.1 Overview
 - 5.2 Key Drivers
 - 5.3 Key Developments
 - 5.4 Competitive Structure
 - 5.5 Key Industrial Trends
- 6 Market Snapshot
- 7 Opportunities and Challenges in the Market
- 8 Global Aerospace Carbon Fibre Market Analysis
 - 8.1 Global Aerospace Carbon Fibre Historical Market (2018-2023)
 - 8.2 Global Aerospace Carbon Fibre Market Forecast (2024-2032)
- 9 United Kingdom Aerospace Carbon Fibre Market Analysis
 - 9.1 United Kingdom Aerospace Carbon Fibre Historical Market (2018-2023)
 - 9.2 United Kingdom Aerospace Carbon Fibre Market Forecast (2024-2032)
- 10 United Kingdom Aerospace Carbon Fibre Market by Material
 - 10.1 Pan Based
 - 10.1.1 Historical Trend (2018-2023)
 - 10.1.2 Forecast Trend (2024-2032)
 - 10.2 Pitch Based

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 10.2.1 Historical Trend (2018-2023)
 - 10.2.2 Forecast Trend (2024-2032)
- 11 United Kingdom Aerospace Carbon Fibre Market by Type
 - 11.1 Continuous Carbon Fibre
 - 11.1.1 Historical Trend (2018-2023)
 - 11.1.2 Forecast Trend (2024-2032)
 - 11.2 Long Carbon Fibre
 - 11.2.1 Historical Trend (2018-2023)
 - 11.2.2 Forecast Trend (2024-2032)
 - 11.3 Short Carbon Fibre
 - 11.3.1 Historical Trend (2018-2023)
 - 11.3.2 Forecast Trend (2024-2032)
- 12 United Kingdom Aerospace Carbon Fibre Market by Application
 - 12.1 Interior
 - 12.1.1 Historical Trend (2018-2023)
 - 12.1.2 Forecast Trend (2024-2032)
 - 12.1.3 Breakup by Type
 - 12.1.3.1 Seat
 - 12.1.3.2 Cabin
 - 12.1.3.3 Sandwich Panel
 - 12.1.3.4 Others
 - 12.2 Exterior
 - 12.2.1 Historical Trend (2018-2023)
 - 12.2.2 Forecast Trend (2024-2032)
 - 12.2.3 Breakup by Type
 - 12.2.3.1 Wing
 - 12.2.3.2 Rotor Blades
 - 12.2.3.3 Tail Boom
 - 12.2.3.4 Others
- 13 United Kingdom Aerospace Carbon Fibre Market by End Use
 - 13.1 Commercial Aircraft
 - 13.1.1 Historical Trend (2018-2023)
 - 13.1.2 Forecast Trend (2024-2032)
 - 13.2 Military Fixed-wing Aircraft
 - 13.2.1 Historical Trend (2018-2023)
 - 13.2.2 Forecast Trend (2024-2032)
 - 13.3 Rotorcraft
 - 13.3.1 Historical Trend (2018-2023)
 - 13.3.2 Forecast Trend (2024-2032)
 - 13.4 Others
- 14 Market Dynamics
 - 14.1 SWOT Analysis
 - 14.1.1 Strengths
 - 14.1.2 Weaknesses
 - 14.1.3 Opportunities
 - 14.1.4 Threats
 - 14.2 Porter's Five Forces Analysis

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 14.2.1 Supplier's Power
- 14.2.2 Buyers Powers
- 14.2.3 Threat of New Entrants
- 14.2.4 Degree of Rivalry
- 14.2.5 Threat of Substitutes
- 14.3 Key Indicators for Demand
- 14.4 Key Indicators for Price
- 15 Competitive Landscape
 - 15.1 Market Structure
 - 15.2 Company Profiles
 - 15.2.1 Gen 2 Carbon Limited
 - 15.2.1.1 Company Overview
 - 15.2.1.2 Product Portfolio
 - 15.2.1.3 Demographic Reach and Achievements
 - 15.2.1.4 Certifications
 - 15.2.2 Crosby Composites Ltd.
 - 15.2.2.1 Company Overview
 - 15.2.2.2 Product Portfolio
 - 15.2.2.3 Demographic Reach and Achievements
 - 15.2.2.4 Certifications
 - 15.2.3 SGL Carbon Fibres Ltd.
 - 15.2.3.1 Company Overview
 - 15.2.3.2 Product Portfolio
 - 15.2.3.3 Demographic Reach and Achievements
 - 15.2.3.4 Certifications
 - 15.2.4 Hexcel Leicester
 - 15.2.4.1 Company Overview
 - 15.2.4.2 Product Portfolio
 - 15.2.4.3 Demographic Reach and Achievements
 - 15.2.4.4 Certifications
 - 15.2.5 Carbon Technology Ltd
 - 15.2.5.1 Company Overview
 - 15.2.5.2 Product Portfolio
 - 15.2.5.3 Demographic Reach and Achievements
 - 15.2.5.4 Certifications
 - 15.2.6 Solvay S.A.
 - 15.2.6.1 Company Overview
 - 15.2.6.2 Product Portfolio
 - 15.2.6.3 Demographic Reach and Achievements
 - 15.2.6.4 Certifications
 - 15.2.7 DowAksa
 - 15.2.7.1 Company Overview
 - 15.2.7.2 Product Portfolio
 - 15.2.7.3 Demographic Reach and Achievements
 - 15.2.7.4 Certifications
 - 15.2.8 Toray Group
 - 15.2.8.1 Company Overview

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 15.2.8.2 Product Portfolio
- 15.2.8.3 Demographic Reach and Achievements
- 15.2.8.4 Certifications
- 15.2.9 Others
- 16 Key Trends and Developments in the Market

List of Key Figures and Tables

1. Global Aerospace Carbon Fibre Market: Key Industry Highlights, 2018 and 2032
2. United Kingdom Aerospace Carbon Fibre Market: Key Industry Highlights, 2018 and 2032
3. United Kingdom Aerospace Carbon Fibre Historical Market: Breakup by Material (USD Million), 2018-2023
4. United Kingdom Aerospace Carbon Fibre Market Forecast: Breakup by Material (USD Million), 2024-2032
5. United Kingdom Aerospace Carbon Fibre Historical Market: Breakup by Type (USD Million), 2018-2023
6. United Kingdom Aerospace Carbon Fibre Market Forecast: Breakup by Type (USD Million), 2024-2032
7. United Kingdom Aerospace Carbon Fibre Historical Market: Breakup by Application (USD Million), 2018-2023
8. United Kingdom Aerospace Carbon Fibre Market Forecast: Breakup by Application (USD Million), 2024-2032
9. United Kingdom Aerospace Carbon Fibre Historical Market: Breakup by End Use (USD Million), 2018-2023
10. United Kingdom Aerospace Carbon Fibre Market Forecast: Breakup by End Use (USD Million), 2024-2032
11. United Kingdom Aerospace Carbon Fibre Market Structure

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

United Kingdom Aerospace Carbon Fibre Market Report and Forecast 2024-2032

Market Report | 2024-06-20 | 176 pages | EMR Inc.

To place an Order with Scotts International:

- ☐ - Print this form
- ☐ - Complete the relevant blank fields and sign
- ☐ - Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User License	\$2999.00
	Five User License	\$3999.00
	Corporate License	\$4999.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

☐ ** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2025-06-25"/>
		Signature	<input type="text"/>

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com