

# **Aerospace Composites Market by Type (Glass Fiber, Carbon Fiber, Ceramic Matrix, Aramid Fiber, Metal Matrix), Aircraft Parts (Fuselage, Wings, Empennage), & Application (Commercial, Military, Business, Helicopters) - Global Trends & Forecasts to 2019**

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## **Abstracts**

Composite materials in aerospace are used primarily because they have higher strength to weight ratio than metals. Thus, they help save fuel and also aid to decrease the harmful fuel emissions. The various types of aerospace composites that have been included in this report are: glass fiber reinforced composites, carbon fiber reinforced composites, metal matrix composites (MMC), aramid fiber composites, and ceramic matrix composites (CMC).

Among different aerospace composite types, glass fiber reinforced composites occupied the highest market share in terms of value in 2013. Carbon fiber reinforced composites is the fastest-growing type due to growing consumption in commercial, business, and military aircrafts. The rise in demand of fuel-efficient aircrafts and robust economic growth are the two main drivers of the market. Although the high cost of carbon fibers is projected to inhibit the growth to some extent, the long-term benefits of using them are undeniable. Efforts are being made by companies for the profitable mass production of carbon fibers. This is chiefly due to the growing demand for fuel-efficient aircrafts and certain environmental norms, such as EPA regulations and ACARE emission targets.

Region-wise, North America and Europe are leading the global market. Growth in Asia-Pacific is the highest owing rising demand for fuel efficient aircrafts in the region. The growth is also aided by cheaper raw material prices. Due to the region's favorable prospects, several companies are expanding in Asian countries to benefit from the low-cost structures and growing local demand for composites. Commercial aircrafts

represent the largest application for aerospace composites. This is mainly due to the leading OEMs, Airbus and Boeing. The demand is therefore expected to grow for aerospace composites among other aircraft manufacturers as well.

The report analyzes the aerospace composite market trends and forecasts till 2019. The market size has been provided in terms of market volume (KT) and value (\$million). The report also identifies prominent players and provides analysis for each player in terms of company overview, financials, products & services offered recent developments, and company strategy.

The aerospace composite market size is projected to register a CAGR of 7.1% between 2014 and 2019 to reach \$4, 993.1 million in terms of value. The commercial aircrafts application segment holds 62.7% market share by volume and thus constitutes a significant part of the overall aerospace composite market. However, the military application segment is projected to grow at a high CAGR of 9.7% by 2019. The high growth can be attributed to the rise in global security issues and increased defense budgets of certain countries, such as the U.S. and Russia.

The aerospace composite industry is moving towards investment in the implementation of technologies to produce new and high-quality products. The companies involved in this market are extensively into research and new product developments.

All these factors are projected to continue to drive the demand for aerospace composites.

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## About

Composite is a combination of at least two materials, out of which one is a binding material (known as matrix) and the other is a reinforcement material (which is generally a fiber). The matrix can be metallic, ceramic, or polymeric. The fiber can be carbon, glass, or aramid. A material is required to hold the fiber and binding material together, this material is known as resin. The resin can be epoxy, vinyl ester, polyurethanes, phenolic, and unsaturated polyesters. In case of fiber composites, reinforcement determines properties while matrix holds the reinforcement in place to yield composites known as fiber composites.

### Objectives Of The Study

- To define and segment the aerospace composites market
- To analyze and forecast the market size of aerospace composites by type (carbon fiber composites, glass fiber composites, ceramic matrix composite, aramid composite, and metal matrix composite), in terms of volume and value
- To analyze the market segmentation on the basis of key applications, such as commercial aircraft, military aircraft, business & general aviation, civil helicopters, and maintenance, repair & overhaul, in terms of volume and value
- To analyze the market segmentation on the basis of aircraft parts, such as main body (fuselage), wings, and tail (empennage), in terms of volume and value
- To forecast the value of market segments with respect to four main regions, namely, North America, Europe, Asia-Pacific, and Rest of the World (RoW)
- To analyze and forecast the market size, in terms of volume and value, for major types in major countries, such as the U.S., Canada, Germany, France, Italy, Russia, the U.K., China, Japan, South Korea, India, Brazil, and Israel
- To provide detailed information regarding the major factors influencing the growth of the market (drivers, restraints, opportunities, industry specific challenges, winning imperatives, and burning issues)
- To analyze the opportunities in the market for stakeholders and details of a

competitive landscape for the market leaders

- To track and analyze competitive developments, such as joint ventures, mergers & acquisitions, new product developments, and research and developments in the aerospace composites market

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