

Aeroengine Composites Market Expanding With \$4.74 Billion at 12.5% CAGR by 2029

The Business Research Company's Aeroengine Composites Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034

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[/EINPresswire.com/](#) -- What Is The Forecast For The [Aeroengine Composites Market](#) From 2024 To 2029?

Rapid expansion has been witnessed in the aeroengine composites market size in the past few years. Rising from \$2.55 billion in 2024, the market is projected to expand to \$2.97 billion by 2025, maintaining a Compound Annual Growth Rate (CAGR) of 16.3%. Factors such as the need



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for weight reduction, heightened demand for fuel efficiency, emission regulatory standards, and a greater focus on engine performance have been instrumental in driving growth during this period.

The aeroengine composites market is expected to grow quickly, reaching \$4.75 billion by 2029 at a CAGR of 12.5%. This growth will be fueled by rising demand for lightweight aircraft, innovations in composite materials, tighter emission standards, greater use of carbon fiber, and the push for sustainable aviation. Key trends include 3D printing in composite fabrication, advancements in nano-

composites, use of hybrid composite structures, creation of self-repairing composites, and a focus on recycling and circular production.

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What Are The Core Growth Drivers Shaping The Future Of The Aeroengine Composites Market? There is an ongoing swell in interest for engines that consume less fuel, and this is anticipated to fuel the expansion of the aero-engine composites sector. Engines that are fuel-efficient in aircraft



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not only minimizes CO2 emissions but also diminishes the operating expenses for airline firms. The global shortage of oil and escalating demand are causing oil prices to rise, thereby, spurring the necessity for more fuel-economical engines. Superior fuel-efficiency, which leads to less fuel usage, can result in significant savings for airline companies. Aero-engine composites lighten the aircraft's overall weight while enhancing its fuel efficiency. As an illustration, in April 2022, the Department of Transportation in the US, in charge of federal transportation project planning and coordination, enforced the new Corporate Average Fuel Economy (CAFE) regulations which require a fleet average of roughly 49 mpg for passenger vehicles and light trucks by the model year 2026. They are targeting for an annual fuel proficiency escalation of 8% for the model years of 2024-2025, and 10% for 2026, resulting in almost a 10 mpg enhancement from the 2021 average. Consequently, the rising demand for fuel-efficient engines is accelerating the growth of the aero-engine composites industry.

Which Companies Are Currently Leading In The Aeroengine Composites Market?

Major players in the Aeroengine Composites include:

- Solvay SA
- Meggitt plc
- Hexcel Corporation
- Albany Engineered Composites Inc.
- Fischer Advanced Composite Components AG
- General Electric Aircraft Engines
- Rolls Royce plc
- Safran SA
- General Dynamics Corporation
- GKN Ltd.

What Are The Top Trends In The Aeroengine Composites Industry?

The trend of technological progression is becoming pronounced in the market of aero-engine composites. Manufacturers are more and more inclined towards implementing contemporary technologies in producing aero-engine composites for greater fuel efficiency and minimized CO2 emissions. For example, in September 2024, Toray Industries, Inc., an advanced materials corporation from Japan, introduced the Toray Cetex TC1130 PESU. Its key benefits incorporate lightness, full recyclability, making it perfect for use in plane interiors. Furthermore, it excels in fire, smoke, and toxicity resistance, as well as excellent impact resilience and toughness, imperative in adhering to the rigorous safety regulations of the aerospace industry.

Comparative Analysis Of Leading Aeroengine Composites Market Segments

The aeroengine composites market covered in this report is segmented –

- 1) By Type: Polymer Matrix Composites, Ceramic Matrix Composites, Metal Matrix Composites
- 2) By Component: Fan Blades, Fan Case, Guide Vanes, Shrouds, Other Components
- 3) By Application: Commercial Aircraft, Military Aircraft, General Aviation Aircraft

Subsegments:

- 1) By Polymer Matrix Composites (PMCs): Epoxy-Based Composites, Phenolic-Based Composites, Thermoplastic Composites
- 2) By Ceramic Matrix Composites (CMCs): Carbon Fiber Reinforced CMCs, Silicon Carbide Reinforced CMCs
- 3) By Metal Matrix Composites (MMCs): Aluminum Matrix Composites, Titanium Matrix Composites, Magnesium Matrix Composites

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Which Regions Are Dominating The Aeroengine Composites Market Landscape?

In 2024, North America dominated the market for aeroengine composites. The region projected to experience the most rapid growth in the coming years is Asia-Pacific. The report on the aeroengine composites market covers regions such as Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

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