

Defense Aircraft Materials Market CAGR to be at 6.1% from 2025 to 2029 | \$55.68 Billion Industry Revenue by 2029

*The Business Research Company's
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What Is The Projected Market Size & Growth Rate Of The Defense Aircraft Materials Market?

In recent times, there has been considerable growth in the market size of materials for defense aircraft. It is predicted that this market will expand from \$41.27 billion in 2024 to \$43.89 billion in 2025, indicating a compound annual growth rate (CAGR) of 6.4%. The growth observed during the historical period can be associated with a rise in defense budgets, growing global military conflicts, increased demand for modernization, expansion of military fleets, and escalated procurement of combat aircraft.

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It will grow to \$53.68 billion in 2029 at a compound annual growth rate (CAGR) of 6.1%.”

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In the forthcoming years, the defense aircraft materials market is predicted to experience robust growth. By 2029, its projected value is \$53.68 billion, growing at a compound annual growth rate (CAGR) of 6.1%. The growth during the projected period can be attributed to factors like growing geopolitical instability, a surge in the demand for stealth capabilities, an increasing rate of unmanned combat aerial vehicle production, increasing concentration on sustainability, and the rising requirement for advanced composites. The forecast period is also expected to see significant trends such as advancements in composite technology, the creation of lightweight materials, increased investment in research and development, innovation in additive manufacturing, and progress in the development of titanium alloys.

Download a free sample of the defense aircraft materials market report:

<https://www.thebusinessresearchcompany.com/sample.aspx?id=25292&type=smp>

What Is The Crucial Factor Driving The Global Defense Aircraft Materials Market?

The heightened demand for high-tech military airplanes is projected to spur the growth of the defense aircraft materials market going forward. Advanced military aircrafts are well-equipped combat planes with stealth, precise systems, and superior speed designed for contemporary defense operations. Rising geopolitical conflicts are sparking an increased need for advanced military aircraft, as nations now focus on air dominance, ready themselves for high-tech warfare, and step up their rapid response abilities in volatile areas. Defense aircraft materials, such as aerospace superalloys and advanced composites, are critical in improving the performance, resilience, and survivability of advanced military planes by bearing extreme temperatures, decreasing weight, and boosting fuel efficiency and maneuverability. For example, as per the U.S. Department of State, responsible for the country's foreign policy and international relations, military equipment and services worth \$80.9 billion were transferred in 2023, which shows a 55.9% escalation compared to the \$50.9 billion transferred in fiscal 2022. Hence, the escalating demand for advanced military aircraft is propelling the growth of the defense aircraft materials market.

Who Are The Emerging Players In The Defense Aircraft Materials Market?

Major players in the Defense Aircraft Materials Global Market Report 2025 include:

- Airbus SE
- General Dynamics Corporation
- SABIC (Saudi Basic Industries Corporation)
- Northrop Grumman Corporation
- Honeywell International Inc.
- Safran S.A.
- Thales Group
- Toray Industries Inc.
- Evonik Industries AG
- Kobe Steel Ltd.

What Are The Key Trends Shaping The Defense Aircraft Materials Industry?

Leading corporations in the defense aircraft materials industry are concentrating their efforts on creating innovative solutions like carbon-fiber 3D printing materials, aimed at enhancing aircraft performance, reducing weight, and increasing fuel efficiency. Carbon-fiber 3D printing materials, which are composite filaments or powders created by fusing a base material such as nylon, PLA, or polyamide with short carbon fibers, serve to increase the strength, durability, and rigidity of the printed parts whilst maintaining their light nature. For example, the Defense Research and Development Organization (DRDO), a governmental agency based in India, introduced FS6130CF-F, a new high-performance carbon-fiber-reinforced PA6 substance designed for use with Farsoon's industrial flight 3D printing systems in June 2024. This material, compatible with the

Flight HT403P-2 (dual-laser) and Flight HT/ST252P high-temperature laser PBF platforms, is now accessible in both the US and European markets.

What Segments Are Covered In The Defense Aircraft Materials Market Report?

The defense aircraft materials market covered in this report is segmented –

- 1) By Material Type: Aluminum Alloys, Steels, Titanium Alloys, Composites
- 2) By Product: Cleaning Chemicals, Aviation Paint Strippers, Degreasers, Aircraft Leather Cleaners, Specialty Solvents, Aircraft Wash And Polishes, Other Products
- 3) By Application: Transport Aircraft, Combat Aircrafts, Military Cargo, Helicopters, Other Applications
- 4) By End-User: Military Organizations, Defense Contractors, Government Agencies

Subsegments:

- 1) By Aluminum Alloys: 2xxx Series Aluminum Alloys, 7xxx Series Aluminum Alloys, High-Strength Aluminum-Lithium Alloys, Heat-Treatable Aluminum Alloys
- 2) By Steels: Stainless Steels, High-Strength Low-Alloy (HSLA) Steels, Maraging Steels, Tool Steels
- 3) By Titanium Alloys: Alpha Titanium Alloys, Beta Titanium Alloys, Alpha-Beta Titanium Alloys, Titanium Matrix Composites
- 4) By Composites: Carbon Fiber Reinforced Polymers (CFRP), Glass Fiber Reinforced Polymers (GFRP), Aramid Fiber Composites, Ceramic Matrix Composites (CMC)

View the full defense aircraft materials market report:

<https://www.thebusinessresearchcompany.com/report/defense-aircraft-materials-global-market-report>

Which Region Is Projected To Hold The Largest Market Share In The Global Defense Aircraft Materials Market?

In the Defense Aircraft Materials Global Market Report 2025, North America held the leading market position in the year 2024. Moreover, the Asia-Pacific region is anticipated to experience the most rapid growth during the forecast period. The report provides information on various regions, including Asia-Pacific, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa.

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