

Composites Testing Market Set for Strong Growth, Projected to Reach USD 3.9 Billion by 2035

composites testing market set for strong expansion, driven by rising adoption of lightweight materials, advanced testing technologies.

ROCKVILLE, MD , MD, UNITED STATES,
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The global [composites testing market](#) is valued at USD 2.0 billion in 2025.

According to Fact.MR analysis, the market is projected to grow at a CAGR of 5.2%, reaching USD 3.9 billion by 2035. Industry growth gained momentum in 2024, driven by rising

demand from the automotive and aerospace sectors, where efficiency and safety are critical. Technological innovations such as artificial intelligence, non-destructive testing methods, and digital twin technology have further enhanced testing precision and efficiency.

In 2024, increasing demand for lightweight, high-strength composite materials across multiple industries contributed to market expansion. The aerospace sector, in particular, accelerated the adoption of composites to improve fuel efficiency and performance, leading to heightened testing requirements. Meanwhile, the automotive industry expanded composite usage to meet stringent emission standards and enhance vehicle safety features.

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Key Takeaways from Market Study:

The global composites testing market is valued at USD 2.0 billion in 2025.

The market is projected to reach USD 3.9 billion by 2035.

The market is growing at a CAGR of 5.2% during the forecast period.

Non-destructive testing (NDT) segment is projected to grow at approximately 5.7% CAGR.



Composites Testing Market 3

The automotive segment is expected to register a CAGR of over 7%.
North America holds more than 30% share of the global market.
The Asia-Pacific region is growing at a CAGR between 5.6% and 6%.

Leading Players Driving Innovation in the Composites Testing Market:

Key players operating in the composites testing market include Exova Group, Intertek Group, Mistras Group Inc., Element Materials Technology, Westmoreland Mechanical Testing & Research Inc., Matrix Composites, Instron, ETIM Laboratory, and Henkel AG & Co. KGaA.

Market Drivers & Technological Advancements:

Growth in the market is primarily driven by intensified use of lightweight, high-strength composite materials in key end-use industries, particularly aerospace, automotive, energy, and construction. In 2024, increased demand for such materials led to heightened testing activities to satisfy rigorous efficiency and safety standards. Aerospace firms ramped up testing procedures to enhance fuel efficiency and performance, while automotive manufacturers incorporated composites to comply with increasingly stringent emission and safety regulations.

The market's expansion has been further accelerated by cutting-edge advances in testing technologies. Non-destructive testing (NDT) methods—such as ultrasonic, thermographic, and radiographic inspections—have facilitated more efficient and precise evaluations without damaging components. Simultaneously, the integration of artificial intelligence (AI), digital twin models, and real-time analytics has enabled predictive maintenance and enhanced quality control capabilities.

Industry Dynamics & Competitive Landscape:

The composites testing industry benefits from a moderately concentrated structure, with major players—including Exova Group, Intertek, Mistras, Element Materials Technology, Westmoreland Mechanical, Matrix Composites, Instron, ETIM Laboratory, and Henkel AG & Co. KGaA—dominating the market. These companies are forming strategic alliances, building advanced testing facilities, and investing in R&D to develop innovative testing services and expand their global footprint.

Despite strong growth prospects, the sector faces notable challenges, including the high cost of specialized testing equipment, a shortage of qualified testing personnel, and varying international safety standards. Additionally, concerns related to data integrity and cybersecurity present evolving obstacles. However, opportunities in renewable energy—especially wind turbine manufacturing—and the adoption of AI-driven and digital testing platforms offer significant growth potential.

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More Valuable Insights on Offer:

Fact.MR, in its new offering, presents an unbiased analysis of the global composites testing market, presenting historical data for 2020 to 2024 and forecast statistics for 2025 to 2035.

Prominent companies operating in the composites testing market include Exova Group, Intertek Group, Mistras Group Inc., Element Materials Technology, Westmoreland Mechanical Testing & Research Inc., Matrix Composites, Instron, ETIM Laboratory, and Henkel AG & CO. KGaA.

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The global [marine composites market](#) is expected to grow at a CAGR of 6.0% during the forecast period and reach a valuation of US\$ 8.5 billion in 2033 from a valuation of US\$ 4.8 billion in 2023.

The global [closed molding composites market](#) size has reached US\$ 66.2 billion in 2023 and is expected to climb to US\$ 117.9 billion by 2033. Global demand for closed molding composites is predicted to increase at a CAGR of 6% during the next 10 years by Fact.MR.

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