

# Composite Testing Market: Trends, Opportunities and Competitive Analysis [2024-2030]

<https://marketpublishers.com/r/CC5B30DB63F7EN.html>

Date: April 2024

Pages: 150

Price: US\$ 4,850.00 (Single User License)

ID: CC5B30DB63F7EN

## Abstracts

Get it in 2 to 4 weeks by ordering today

### Composites Testing Market Trends and Forecast

The future of the composites testing market looks promising with opportunities in the aerospace & defense, automotive, and wind energy end use market. The global composites testing market is expected to reach an estimated \$2 billion by 2030 with a CAGR of 5% from 2023 to 2030. The major drivers for this market are increasing aircraft deliveries, development of new composite applications in various industries, and stringent regulations & certification standards for the safety.

Lucintel forecasts that aerospace and defense will remain the largest and the fastest growing segment due to growing production of aircrafts and stringent regulation and certification standards for the aircraft safety. Wind energy is expected to witness highest growth over the forecast period.

Non-destructive testing will remain the largest segment and it is also expected to witness the highest growth during the forecast period due to increasing demand for ultrasonic testing in the aerospace and defense, wind energy and automotive industry.

APAC will remain the largest region and it is also expected to witness highest growth over the forecast period due to the growth of wind energy and

automotive end uses in this region.

APAC will remain the largest market in the Composites Testing Market

1. **United States:** Companies like Exova Group and Element Materials Technology are expanding their composite testing services to support aerospace and automotive industries. The US government's investment in advanced materials research and defense applications drives market growth.
2. **Germany:** German firms such as TÜV SÜD and DEKRA are enhancing their testing capabilities for composites used in automotive and wind energy sectors. Government initiatives promoting industrial innovation and renewable energy projects support this expansion.
3. **China:** Companies like SGS China and CTC Testing are increasing their composite testing facilities to cater to the growing aerospace and construction sectors. The Chinese government's focus on high-tech manufacturing and infrastructure development fuels market growth.
4. **United Kingdom:** Firms such as Element Materials Technology and Intertek Group are investing in advanced testing equipment to support the aerospace and automotive industries. The UK government's emphasis on innovation and technology development in manufacturing drives these initiatives.
5. **Japan:** Japanese companies like Nippon Kaiji Kyokai (ClassNK) and Toray Industries are enhancing composite testing capabilities to support automotive and electronics sectors. Government policies promoting advanced materials research and technology innovation drive market expansion.

Emerging Trends in the Composites Testing Market

Emerging trends, which have a direct impact on the dynamics of the industry, includes gaining popularity of shearography testing in aerospace, and wind energy end use industry

A total of 83 figures / charts and 59 tables are provided in this 135-page report to help in your business decisions. A sample figure with insights is shown below.

## Composites Testing Market by Segment

The study includes trends and forecast for the global composites testing market by source type, by end use industry, type, product, and region as follows:

### Composites Testing Market by Source Type [Value (\$M) and Volume (M lbs.) Shipment Analysis for 2018 – 2030]:

In-house

Outsource

### Composites Testing Market by End Use [Value (\$M) and Volume (M lbs.) Shipment Analysis for 2018 – 2030]:

Aerospace and Defense

Automotive

Wind Energy

Pipe and Tank

Others

### Composites Testing Market by Type [Value (\$M) and Volume (M lbs.) Shipment Analysis for 2018 – 2030]:

Non Destructive Testing

Ultrasonic

Thermography

Radiography

Shearography

Others

Destructive Testing

Tensile

Fatigue

Impact

Flexure

Compression

Others

Composites Testing Market by Product [Value (\$M) and Volume (M lbs.) Shipment Analysis for 2018 – 2030]:

Polymer Matrix Composites

Metal Matrix Composites

Ceramic Matrix Composites

Composites Testing Market by Region [Value (\$M) Shipment Analysis for 2018 – 2030]:

North America

Europe

Asia Pacific

The Rest of the World

## List of Composites Testing Companies

Companies in the market compete on the basis of product quality offered. Major players in this market focus on expanding their manufacturing facilities, R&D investments, infrastructural development, and leverage integration opportunities across the value chain. With these strategies composites testing companies cater increasing demand, ensure competitive effectiveness, develop innovative products & technologies, reduce production costs, and expand their customer base. Some of the composites testing companies profiled in this report include.

Boeing

Airbus

Exova Group (Element Materials Technology)

Intertek Group

Mistras Group

Westmoreland Mechanical Testing & Research

Applus+

## Composites Testing Market Insight

Lucintel forecasts that aerospace and defense will remain the largest and the fastest growing segment due to growing production of aircrafts and stringent regulation and certification standards for the aircraft safety. Wind energy is expected to witness highest growth over the forecast period.

Non-destructive testing will remain the largest segment and it is also expected to witness the highest growth during the forecast period due to increasing demand for ultrasonic testing in the aerospace and defense, wind energy and automotive industry.

APAC will remain the largest region and it is also expected to witness highest growth over the forecast period due to the growth of wind energy and automotive end uses in this region.

## Features of Composites Testing Market

**Market Size Estimates:** Composites testing market size estimation in terms of value (\$M)

**Trend and Forecast Analysis:** Market trends (2018-2023) and forecast (2024-2030) by various segments and regions.

**Segmentation Analysis:** Market size by source type, by end use industry, type, product and region

**Regional Analysis:** Composites testing market breakdown by North America, Europe, Asia Pacific, and the Rest of the World.

**Growth Opportunities:** Analysis of growth opportunities in different end use source type, type, product and regions for the composites testing market.

**Strategic Analysis:** This includes M&A, new product development, and competitive landscape for the composites testing market.

**Analysis of competitive intensity of the industry based on Porter's Five Forces model.**

## FAQ

Q1. What is the composites testing market size?

Answer: The global composites testing market is expected to reach an estimated \$2 billion by 2030.

Q2. What is the growth forecast for composites testing market?

Answer: The composites testing market is expected to grow at a CAGR of 5% from 2023 to 2030.

Q3. What are the major drivers influencing the growth of the composites testing market?

Answer: The major drivers for this market are increasing aircraft deliveries, development of new composite applications in various industries, and stringent regulations & certification standards for the safety.

Q4. What are the major applications or end use industries for composites testing?

Answer: Aerospace & defense, automotive, and wind energy are the major end use industries for composites testing.

Q5. What are the emerging trends in composites testing market?

Answer: Emerging trends, which have a direct impact on the dynamics of the industry, includes gaining popularity of shearography testing in aerospace, and wind energy end use industry.

Q6. What are the key composites testing companies?

Answer: Some of the key composites testing companies are as follows:

Boeing

Airbus

Exova Group (Element Materials Technology)

Intertek Group

Mistras Group

Westmoreland Mechanical Testing & Research

Applus+

Q7. Which composites testing product type will be the largest in future?

Answer: Lucintel forecasts that non-destructive testing will remain the largest segment and it is also expected to witness the highest growth during the forecast period due to increasing demand for ultrasonic testing in the aerospace and defense, wind energy and automotive industry.

Q8: In composites testing market, which region is expected to be the largest in next 5 years?

Answer: North America is expected to remain the largest region and witness the highest growth over next 5 years

Q9. Do we receive customization in this report?

Answer: Yes, Lucintel provides 10% Customization Without any Additional Cost.

This report answers following 11 key questions

Q.1 What are some of the most promising potential, high growth opportunities for the global composites testing market by source type (in-house and outsource) by end use industry (aerospace and defense, automotive, wind energy, pipe and tank and others), by type (non-destructive testing and destructive testing) by product (polymer matrix composites, metal matrix composites and ceramic matrix composites), and by region (North America, Europe, Asia Pacific, and the Rest of the World)?

Q. 2 Which segments will grow at a faster pace and why?

Q.3 Which regions will grow at a faster pace and why?

Q.4 What are the key factors affecting market dynamics? What are the drivers and challenges of the market?

Q.5 What are the business risks and threats to the market?

Q.6 What are the emerging trends in this market and the reasons behind them?

Q.7 What are the changing demands of customers in the market?



Q.8 What are the new developments in the market? Which companies are leading these developments?

Q.9 What are the major players in this market? What strategic initiatives are being implemented by key players for business growth?

Q.10 What are some of the competitive products and processes in this area and how big of a threat do they pose for loss of market share via material or product substitution?

Q.11 What M & A activities have taken place in the last 5 years in this market?

For any questions related to composites testing market or related composites testing market share, composites testing market analysis, and composites testing market size, write Lucintel analysts at [helpdesk@lucintel.com](mailto:helpdesk@lucintel.com). We will be glad to get back to you soon.

## Contents

### **1. EXECUTIVE SUMMARY**

### **2. GLOBAL COMPOSITES TESTING MARKET DYNAMICS**

2.1: Introduction, Background, and Classifications

2.2: Supply Chain

2.3: Industry Drivers and Challenges

### **3. MARKET TRENDS AND FORECAST ANALYSIS FROM 2018 TO 2030**

3.1: Macroeconomic Trends and Forecasts

3.2: Global Composites Testing Market Trends and Forecast

3.3 Global Composites Testing Market by Source Type

3.3.1: In-house

3.3.2: Outsource

3.4: Global Composites Testing Market by End Use

3.4.1: Aerospace and Defense

3.4.2: Automotive

3.4.3: Wind Energy

3.4.4: Pipe and Tank

3.4.5: Others

3.5: Global Composites Testing Market by Type

3.5.1: Non Destructive Testing

3.5.1.1: Ultrasonic

3.5.1.2: Thermography

3.5.1.3: Radiography

3.5.1.4: Shearography

3.5.1.5: Others

3.5.2: Thermography Destructive Testing

3.5.2.1: Tensile

3.5.2.2: Fatigue

3.5.2.3: Impact

3.5.2.4: Flexure

3.5.2.5: Compression

3.5.2.6: Others

3.6: Global Composites Testing Market by Product

3.6.1: Polymer Matrix Composites

- 3.6.2: Metal Matrix Composites
- 3.6.3: Ceramic Matrix Composites

## **4. MARKET TRENDS AND FORECAST ANALYSIS BY REGION**

- 4.1: Global Composites Testing Market by Region
- 4.2: North American Composites Testing Market
  - 4.2.1: Market by End Use: Aerospace and Defense, Automotive, Wind Energy, Pipe and Tank and Others
- 4.3: European Composites Testing Market
  - 4.3.1: Market by End Use: Aerospace and Defense, Automotive, Wind Energy, Pipe and Tank and Others
- 4.4: APAC Composites Testing Market
  - 4.4.1: Market by End Use: Aerospace and Defense, Automotive, Wind Energy, Pipe and Tank and Others
- 4.5: ROW Composites Testing Market
  - 4.5.1: Market by End Use: Aerospace and Defense, Automotive, Wind Energy, Pipe and Tank and Others

## **5. COMPETITOR ANALYSIS**

- 5.1: Service Portfolio Analysis
- 5.2: Operational Integration
- 5.3: Geographical Reach
- 5.4: Porter's Five Forces Analysis

## **6. GROWTH OPPORTUNITIES AND STRATEGIC ANALYSIS**

- 6.1: Growth Opportunity Analysis
  - 6.1.1: Growth Opportunities for the Global Composites Testing Market by End Use
  - 6.1.2: Growth Opportunities for the Global Composites Testing Market by Source Type
  - 6.1.3: Growth Opportunities for the Global Composites Testing Market by Type
  - 6.1.4: Growth Opportunities for the Global Composites Testing Market by Product Type
  - 6.1.5: Growth Opportunities for the Global Composites Testing Market by Region
- 6.2: Emerging Trends in the Global Composites Testing Market
- 6.3: Strategic Analysis
  - 6.3.1: Capacity Expansions
  - 6.3.2: Mergers and Acquisitions

6.3.3: Certifications and Licensing

6.3.4: Technology Development

## **7. COMPANY PROFILES OF LEADING PLAYERS**

7.1: Boeing

7.2: Airbus

7.3: Exova Group (Element Materials Technology)

7.4: Intertek Group

7.5: Mistras Group

7.6: Westmoreland Mechanical Testing & Research

7.7: Applus+laboratories

## I would like to order

Product name: Composite Testing Market: Trends, Opportunities and Competitive Analysis [2024-2030]

Product link: <https://marketpublishers.com/r/CC5B30DB63F7EN.html>

Price: US\$ 4,850.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/CC5B30DB63F7EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970