

# **Material Testing Market Report by Type (Universal Testing Machines, Servohydraulic Testing Machines, Hardness Testing Machines, Impact Testing Machines, Non-Destructive Testing Machines), Material (Metals and Alloys, Plastics, Rubber and Elastomers, Ceramics and Composites, and Others), End Use Industry (Automotive, Construction, Education, Aerospace and Defense, Oil and Gas, Energy and Power, and Others), and Region 2024-2032**

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## **Abstracts**

The global material testing market size reached US\$ 6.4 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 8.9 Billion by 2032, exhibiting a growth rate (CAGR) of 3.5% during 2024-2032. The growing global concerns about environmental sustainability, rising integration of cutting-edge technologies, such as artificial intelligence (AI) and machine learning (ML), and the increasing expansion of various industries are some of the major factors propelling the market.

Material testing is a systematic process that involves evaluating and analyzing the physical, mechanical, and chemical properties of various materials. It provides valuable insights into the quality, durability, and performance of materials, aiding in the selection, development, and improvement of materials for diverse applications. It examines chemical composition, corrosion resistance, reactivity, and other chemical attributes. It supports the development of new materials and the improvement of existing ones, which leads to technological advancements across industries. It is used to ensure the biocompatibility and durability of materials employed in implants, prosthetics, and medical instruments.

The expansion of various industries across the globe is catalyzing the demand for material testing techniques. Additionally, increasing sales of electric vehicles (EVs) are driving the need for materials with enhanced electrical conductivity, thermal management, and lightweight properties. Material testing verifies the suitability of materials for EV components, such as batteries and charging infrastructure. Apart from this, the digital transformation of industries is resulting in the integration of digital twins and simulation models. Material testing data feeds into these models, enabling virtual testing and analysis, reducing time-to-market, and enhancing overall efficiency. Furthermore, the rising reliance of the renewable energy sector on durable and efficient materials for solar panels, wind turbines, and energy storage systems is strengthening the growth of the market.

#### Material Testing Market Trends/Drivers:

##### Technological advancements and innovations

Rapid advancements in technology represent one of the key factors strengthening the growth of the market. The integration of cutting-edge technologies, such as artificial intelligence, machine learning, and automation, is resulting in more efficient and accurate testing processes. Automated testing equipment can perform a wide range of tests with high precision and repeatability, which aids in reducing human errors and enhancing the reliability of results. Apart from this, the development of advanced testing techniques, such as non-destructive testing (NDT) methods, has expanded the capabilities of material analysis. NDT techniques, including ultrasound, radiography, and thermal imaging, enable comprehensive evaluation of materials without causing damage.

##### Sustainability and environmental concerns

The growing global concerns about environmental sustainability are encouraging industries to develop materials that are eco-friendly and have a lower environmental impact. Material testing helps in evaluating the sustainability of materials by assessing factors, such as recyclability, energy efficiency, and carbon footprint. Apart from this, rising preferences of individuals, governments, and organizations for products that are eco-friendly and align with sustainable practices are catalyzing the demand for materials with improved environmental profiles, and material testing helps identify materials that meet these criteria. Material testing contributes to the development of greener and more sustainable products by assessing the recyclability of packaging materials or the energy efficiency of construction materials.

## Customization for diverse applications

The expansion of the automotive industry and the escalating demand for personalized solutions like lightweight and durable materials to enhance fuel efficiency without compromising safety are favoring the market growth. Material testing aids in identifying the optimal composition and characteristics required to achieve the desired outcomes. Apart from this, industries are also focusing on optimizing the performance of materials to enhance reliability and durability. Furthermore, by conducting thorough material testing, manufacturers can assess how different formulations and processing methods impact customization and performance. This enables them to make informed choices about material compositions and processing techniques to achieve the desired balance between customization and performance.

## Material Testing Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global material testing market report, along with forecasts at the global, regional, and country levels for 2024-2032. Our report has categorized the market based on type, material and end use industry.

## Breakup by Type:

- Universal Testing Machines
- Servo-hydraulic Testing Machines
- Hardness Testing Machines
- Impact Testing Machines
- Non-Destructive Testing Machines

## Non-destructive testing machines dominate the market

The report has provided a detailed breakup and analysis of the market based on the type. This includes universal testing machines, servo-hydraulic testing machines, hardness testing machines, impact testing machines, and non-destructive testing machines. According to the report, non-destructive testing machines represent the largest market segment as they incorporate cutting-edge technologies, such as ultrasonics, radiography, eddy currents, and magnetic particle testing. These technologies enable precise detection of defects, cracks, and variations in material properties at microscopic levels. Additionally, they offer versatility and allow industries to assess materials used in diverse applications, such as aerospace, automotive,

construction, electronics, and healthcare. Apart from this, NDT machines offer real-time data acquisition and analysis capabilities and enable proactive measures to prevent potential issues and optimize material performance. Furthermore, these machines facilitate compliance by providing detailed records of testing processes, results, and evaluations, which promotes their adoption across different industry verticals.

#### Breakup by Material:

Metals and Alloys

Plastics

Rubber and Elastomers

Ceramics and Composites

Others

Metals and alloys account for the majority of the market share

A detailed breakup and analysis of the market based on the material has also been provided in the report. This includes metals and alloys, plastics, rubber and elastomers, ceramics and composites, and others. According to the report, metals and alloys hold the largest market share as they exhibit exceptional versatility, making them suitable for various applications across industries. Additionally, the increasing use of metals and alloys in numerous industries, such as aerospace and electronics to provide the strength, durability, and thermal conductivity required for diverse functions, is driving the need for rigorous material testing to ensure their quality and efficiency. Material testing assesses properties like tensile strength, hardness, and fatigue resistance to ensure that these materials can withstand the stresses they encounter during operation. Furthermore, the escalating demand for reliable metals and alloys to prevent catastrophic failures in critical systems is favoring the market growth.

#### Breakup by End Use Industry:

Automotive

Construction

Education

Aerospace and Defense

Oil and Gas

Energy and Power

Others

## Construction dominates the market

The report has provided a detailed breakup and analysis of the market based on the end use industry. This includes automotive, construction, education, aerospace and defense, oil and gas, energy and power, and others. According to the report, construction accounts for the majority of the market share as the industry relies heavily on a wide range of materials to ensure structural integrity, compliance with safety standards, and longevity. This dependence on materials drives the demand for robust material testing practices to ensure the safety and structural integrity of buildings and other infrastructure. Apart from this, construction projects are long-term investments and the longevity of structures directly impacts their overall cost-effectiveness. Material testing enables construction professionals to predict the long-term performance of materials, identify potential weaknesses, ensure that materials can withstand environmental factors, and minimize the risk of unforeseen expenses. Moreover, the industry is subject to stringent regulatory standards and building codes to safeguard public safety and enhance the quality of constructed assets.

### Breakup by Region:

- North America
  - United States
  - Canada
- Asia Pacific
  - China
  - Japan
  - India
  - South Korea
  - Australia
  - Indonesia
  - Others
- Europe
  - Germany
  - France
  - United Kingdom
  - Italy
  - Spain
  - Russia
  - Others
- Latin America

Brazil  
Mexico  
Others  
Middle East and Africa

#### Competitive Landscape:

Companies are actively engaged in numerous activities to provide comprehensive testing solutions, advance technology, and meet the diverse needs of industries. These activities encompass a range of services, innovations, and initiatives that contribute to the evolution of the material testing sector. Additionally, they are continuously developing innovative testing techniques that enhance accuracy, efficiency, and versatility. They are investing in research and development (R&D) activities to create advanced methods for evaluating materials, such as using artificial intelligence and machine learning to analyze testing data and predict material behavior. Apart from this, they are integrating automation and digitalization into their testing processes.

The report has provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

Admet Inc.  
Ametek Inc.  
Applied Test Systems LLC  
Illinois Tool Works Inc.  
Labquip  
Mistras Group Inc.  
Mitutoyo Corporation  
MTS Systems Corporation  
Shimadzu Corporation  
Tinius Olsen Ltd.  
Wirsam Scientific  
ZwickRoell AG

#### Recent Developments:

In December 2022, Ametek India, a subsidiary of Ametek Inc. announced the inauguration of a new, state-of-the-art facility in Bengaluru that will provide enhanced support to its customers across India and around the world.

In July 2023, Shimadzu Corporation introduced the Xslicer SMX-6010 microfocus X-ray inspection system that enables vertical CT imaging 3D observation to support failure

analysis in the electronics industries.

### Key Questions Answered in This Report

1. What is the market size for the global material testing market?
2. What is the global material testing market growth?
3. What are the global material testing market drivers?
4. What are the key industry trends in the global material testing market?
5. What is the impact of COVID-19 on the global material testing market?
6. What is the global material testing market breakup by type?
7. What is the global material testing market breakup by material?
8. What is the global material testing market breakup by end use industry?
9. What are the major regions in the global material testing market?
10. Who are the key companies/players in the global material testing market?

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