

Smart Materials Market Report Size, Share, Trends and Forecast by Product, Application, End Use Industry, and Region, 2025-2033

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Abstracts

The global smart materials market size was valued at USD 63.58 Billion in 2024. Looking forward, IMARC Group estimates the market to reach USD 142.12 Billion by 2033, exhibiting a CAGR of 8.88% during 2025-2033. North America currently dominates the market, holding a significant market share of over 33.7% in 2024. The market is driven by advancements in energy efficiency, healthcare innovation, consumer electronics, and sustainability efforts, alongside increasing investments in research and advanced manufacturing techniques.

The increasing use of chemical products in several industries, along with the rising awareness among employees about workplace safety and protection from hazardous conditions, represents one of the key factors catalyzing the adoption of smart materials in protective clothing. Apart from this, the escalating demand for effective, localized, and need-based systems in numerous biomedical applications, including cancer targeting, controlled drug delivery, tissue engineering, and biosensors, is stimulating the market growth. According to the National Cancer Institute in the United States, nearly 20 million new cancer cases and 9.7 million cancer-related deaths were reported globally in 2022. This can also be attributed to the rising incidences of chronic diseases and trauma injuries, coupled with the growing need for regenerative medicines and personalized treatments. The WHO reports that 17 million premature chronic disease deaths occur before 70, with 86% of them in low- and middle-income countries. Moreover, due to the emerging demand for energy-efficient building materials, smart materials are combined with conventional construction materials to build structures that adapt to atmospheric conditions, such as wind, heat, or rain.

United States is a major market disruptor with a share of 93.00% in North America. This

is because that the consumer electronics industry has witnessed significant advancements with the incorporation of smart materials. In the United States, 81% of consumers who have used smart home products are more likely to purchase a home if smart technology is already installed. Also, sustainability initiatives have significantly influenced the smart materials market in the country. Buildings account for a substantial portion of energy consumption, with the residential sector alone accounting for about 21% of the total energy consumption. Industries are also increasingly adopting smart materials like self-healing concrete, which extends infrastructure lifespan and reduces maintenance costs.

Smart Materials Market Trends:

Growing Demand for Energy Efficiency

Energy efficiency is becoming a central focus across industries, and smart materials play a crucial role in achieving this goal. These materials, like piezoelectric ceramics or thermochromic glass, adapt to environmental conditions, making systems more efficient. For instance, buildings using smart windows can regulate indoor temperatures by responding to sunlight intensity, reducing the dependency on heating or cooling systems. This not only lowers energy costs but also helps meet global sustainability targets. Hence, the market for smart windows is increasing rapidly at a rate of 12.7% yearly. It is also said to reach US\$ 3,880.0 million by 2032. In sectors such as automotive and aerospace, lightweight smart materials contribute to better fuel efficiency by reducing the overall weight of vehicles.

Expanding Applications in Healthcare

Healthcare innovation increasingly relies on smart materials for creating advanced medical devices, implants, and drug delivery systems. Shape-memory alloys, for example, are being used in stents that expand once inside a patient's artery. Similarly, bioactive glasses help repair and regenerate bone tissues. Smart polymers are another game-changer, allowing for targeted drug release in response to specific physiological triggers. These materials improve patient outcomes by enhancing precision and reducing recovery times. As the global population ages and healthcare systems look for cutting-edge solutions, the demand for smart materials in medical technologies is experiencing significant growth. By 2024, it is said that the population group of individuals aged over 65 years is going to outnumber those under the age of 15 in the WHO European Region, which is rapidly increasing the use smart materials.

Rising Adoption in Consumer Electronics

Consumer electronics are becoming more advanced, and smart materials are at the heart of many innovations. Flexible displays made from smart polymers are enabling the development of foldable smartphones and tablets. Piezoelectric materials are being integrated into devices for energy harvesting, allowing wearables to charge themselves using body movements. Additionally, electroactive polymers are finding their way into haptic feedback systems, creating more immersive experiences for users. As consumers increasingly seek out devices that are smarter, lighter, and more durable, the use of smart materials in electronics is only growing. With new launches in augmented reality (AR), virtual reality (VR), and wearable tech, this trend is expected to continue shaping the market.

Smart Materials Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global smart materials market, along with forecast at the global, regional, and country levels from 2025-2033. The market has been categorized based on product, application, and end use industry.

Analysis by Product:

Piezoelectric Materials

Shape Memory Materials

Electrostrictive Materials

Magnetostrictive Materials

Phase Change Materials

Electrochromic Materials

Others

Piezoelectric materials stand as the largest product in 2024, holding around 50.2% of the market. Piezoelectric materials account for the largest share in the smart materials

market due to its extensive applications across various industries. The materials generate electric charge upon mechanical stress, making them vital for sensors, actuators, and energy harvesting devices. In the automotive and aerospace industries, piezoelectric materials are applied in the areas of vibration control and precision monitoring. Other health-related applications, including ultrasound imaging and surgical tools, continue to increase their demand. Wearable electronics are on the rise, and renewable energy technologies are also advancing, making piezoelectric materials likely to maintain their market share. Their efficiency and functionality in numerous applications guarantee the growth of piezoelectric materials in the smart materials market.

Analysis by Application:

Transducer

Actuators and Motors

Sensors

Structural Materials

Others

Actuators and motors lead the market with around 46.0% of market share in 2024. They lead the smart materials market due to its critical role in automation, robotics, and advanced manufacturing. Smart materials used in actuators and motors enable precise motion control, responsiveness, and adaptability, making them indispensable in industries including aerospace, automotive and healthcare. Piezoelectric actuators, for example, are widely utilized in precision instruments, automotive fuel injectors, and medical devices like surgical robots. The growing adoption of industrial automation, coupled with the rise in electric vehicles and robotics, has amplified the demand for advanced actuator and motor systems. Their efficiency and reliability in enabling dynamic mechanical movement position this segment as a cornerstone of the smart materials market.

Analysis by End Use Industry:

Automotive

Consumer Electronics

Aerospace and Defense

Healthcare

Industrial

Others

Industrial leads the market with around 36.3% of market share in 2024. Industrial sector occupies the largest share of end-use industry segment in smart materials driven by its wide-ranging usage in manufacturing, energy, and infrastructure applications. The smart materials improve operating efficiency, minimize downtime, and offer advanced functionalities, including self-healing, in machinery and equipment. The use of piezoelectric sensors allows industries to measure with a very high degree of precision and magnetostrictive materials are used in heavy-duty equipment to give it higher performance. Furthermore, smart coatings applied in industrial infrastructure have resulted in reduced wear and corrosion, hence lower maintenance costs. The industrial automation trend and increasing investments in sustainable manufacturing practices further open up demand for smart materials in the industrial sector and strengthen its position in the market.

Regional Analysis:

North America

o United States

o Canada

Asia Pacific

o China

o Japan

o India

o South Korea

o Australia

o Indonesia

o Others

Europe

o Germany

o France

o United Kingdom

o Italy

o Spain

o Russia

o Others

Latin America

o Brazil

o Mexico

o Others

Middle East and Africa

In 2024, North America accounted for the largest market share of over 33.7%. North America leads the smart materials market, driven by robust industrial, healthcare, and technological advancements. The region benefits from significant investments in research and development, with the United States at the forefront of innovation in aerospace, automotive, and defense sectors where smart materials are integral. The healthcare industry's adoption of advanced medical devices and wearable technologies further bolsters demand. Additionally, supportive government initiatives, such as energy efficiency regulations and infrastructure modernization projects, promote the use of smart materials in construction and manufacturing. With a strong focus on sustainability and industrial automation, North America is expected to maintain its dominance in the global smart materials market.

Key Regional Takeaways:

United States Smart Materials Market Analysis

United States is leading the market with 93.00% share in North America. The smart materials market in the US is very much dependent on the dynamic research and development investments and technological capabilities in different fields, such as aerospace, defense, healthcare, and automotive industries. The increased use of cloud computing by 98% of organizations (up from 91% in 2020) according to the Cloud Security Alliance has created an environment for accelerated convergence between IoT and AI technologies with smart materials. This subsequently gives great innovative application possibilities for predictive maintenance and real-time monitoring in manufacturing and infrastructure. The established manufacturing base of the country coupled with major players like 3M and General Electric leads to the continuous innovations in the areas aforementioned. The government initiative toward energy-efficient solutions is a driver for the adoption of smart materials in renewable energy and sustainable construction projects. In the field of healthcare, there is a consistent rise in the need for an advanced biomaterial in medical implants as well as drug delivery systems. Moreover, the growing interest in electric vehicles (EVs) and lightweight materials to improve energy efficiency and performance is a further driver of market growth. With operational efficiencies and cost and safety benefits that smart materials can provide, they find their way into every sector and in particular ensure a steady development of the market in the US.

Asia Pacific Smart Materials Market Analysis

The Asia-Pacific smart materials market is experiencing rapid growth, fueled by industrialization, urbanization, and government-driven initiatives. In India, the demand for IoT is expanding significantly, driven by programs like Digital India and Smart Cities. According to Takshashila University, the country is expected to reach 500 Million IoT connections by 2025, with applications spanning healthcare, agriculture, and manufacturing. This growing IoT adoption is boosting demand for smart materials, which enable responsive and adaptive technologies across sectors. Additionally, leading nations like China, Japan, and South Korea are driving advancements in automotive, electronics, and renewable energy, further accelerating the use of piezoelectric and thermoelectric materials. The growing focus on electric vehicles (EVs) and the expanding aerospace industry also contribute to rising demand for lightweight, durable materials. Supportive government policies, such as R&D subsidies and incentives for energy-efficient solutions, continue to foster innovation and the adoption of smart materials across the region.

Europe Smart Materials Market Analysis

Europe's market for smart materials is fostered by strong regulations on issues such as sustainability, energy efficiency, and carbon neutrality. Wind power contributes the largest percentage of 17%, followed by hydropower at 13% and solar photovoltaics at 9%. Behind heat pumps and liquid biofuels, both with a share of 8% of renewable energy use, these four renewable sources take up most of the remaining space, reports the EEA. These energy initiatives fuel the demand for adaptive and durable smart materials that enhance the efficiency and longevity of renewable energy infrastructure. The region's strength in automotive and aerospace, as well as the demand for lighter and multifunctional materials to improve performance while reducing emissions, further drives innovation. And lastly, healthcare accounts for a significant proportion with increased demand for advanced biomaterials in implants and wearable medical devices. In addition, European Union funding for R&D has encouraged the development and marketing of advanced smart materials. Industry 4.0 technologies, such as IoT and AI, enhance the use of responsive materials in automation and robotics. All these together make Europe a world leader in smart material development, further promoting sustainability and innovation across a various industries.

Latin America Smart Materials Market Analysis

A significant part of Latin America's smart materials market consists of dependent renewable energies. Fossil fuels make up two-thirds of the energy mix in the region,

which is well below the global average of 80 percent, because renewables contribute about 60 percent to electricity production, according to the International Energy Agency (IEA). This has generated a demand for progressive materials that can improve the performance and sustainability of renewable energy systems, such as wind turbines and solar panels. The expanding automotive and aerospace sectors in Brazil and Mexico, coupled with investments by governments in health infrastructure, also pave the way for the adoption of smart materials.

Middle East and Africa Smart Materials Market Analysis

The Middle East and Africa smart materials market is driven by increasing investments in infrastructure, renewable energy, and healthcare. According to Rystad Energy, a projection of about 30% of installed capacity by 2030 shall come from renewables in the region, increasing to an estimated 75% by 2050. Thus, all these shifts in paradigms will eventually build the demand for advanced materials to enhance the efficiency and durability of renewable energy systems. At the same time, the smart city projects in the UAE and Saudi Arabia are major contributors to the adoption of more sustainable materials in buildings. The continuing transformation of oil and gas, as well as the growth of healthcare, have also pushed for smart, responsive and corrosion-resistant materials.

Competitive Landscape:

To meet the rising demand across sectors, key market players are focused on innovation, strategic alliances, and increased production capacity. Companies are developing piezoelectric and magnetostrictive materials for sensors and actuators, with applications in automotive, healthcare, and aerospace. Furthermore, they prioritize sustainable solutions using biodegradable polymers, while others improve smart coatings and adhesives for defense and industrial uses. Many firms are investing in R&D to create cost-effective, high-performance smart materials for specific end-use sectors. Collaborations between material makers and technology businesses are propelling advances in wearable electronics and energy harvesting devices. Furthermore, companies are using modern manufacturing methods like as three-dimensional (3D) printing to incorporate smart materials into complicated components. With increasing emphasis on sustainability and efficiency, these companies are also aligning with global environmental goals, reinforcing their market positions while meeting the evolving needs of various sectors.

The report provides a comprehensive analysis of the competitive landscape in the smart

materials market with detailed profiles of all major companies, including:

APC International Ltd

Arkema S.A

Confluent Medical Technologies

CTS Corporation

Gentex Corporation

Johnson Matthey

Kyocera Corporation

Meggitt PLC

Murata Manufacturing Co. Ltd

Piezo Kinetics Inc. (The Crest Group Incorporated)

SAGE Electrochromics Inc. (Saint-Gobain S.A.)

Solvay S.A.

Latest News and Developments:

September 2024: Li Auto and Covestro have signed a strategic agreement to establish a joint innovation platform focused on the development of smart materials for future mobility. The partnership will advance R&D in high-performance optical-grade materials, smart surface technologies, in-mold electronics, and thermal management solutions. They will also explore low-carbon technologies using recycled and bio-based materials, aiming to reduce carbon emissions in the automotive value chain and promote circular economy practices.

July 2024: Kyocera Corporation (President: Hideo Tanimoto) has announced the

launch of a new thermoelectric Peltier module featuring a 21% improvement in heat absorption compared to its previous models. This advancement enhances cooling efficiency, particularly for temperature regulation in automotive battery systems and seating. By June 2024, Kyocera had supplied 32 million units for automotive applications, underscoring its role in advancing smart material technologies for the automotive sector.

February 2024: ArcBest® has introduced Vaux Smart Autonomy, an autonomous material handling solution utilizing smart materials like AMR forklifts, reach trucks, and intelligent software for flexible, efficient operations in warehouses and distribution centers. This technology builds on the Vaux Freight Movement System, enhancing material handling with advanced smart material solutions.

February 2024: ARMOR GROUP has launched ARMOR SMART FILMS, focusing on smart materials for sectors like MedTech, GreenTech, and ICT. The new subsidiary aims for EUR 50 Million (USD 52.5 Million) in turnover within 5-10 years.

January 2024: BASF has opened its largest TPU production line at the Zhanjiang Verbund site, utilizing advanced automation for improved efficiency. The plant will address growing demand for smart materials, particularly in eMobility and new energy sectors, while supporting recyclable Elastollan® TPU solutions. BASF's R&D network continues to drive innovation, aligning with trends like car electrification and electronics miniaturization through advanced smart material solutions.

Key Questions Answered in This Report

- 1.What are smart materials?
- 2.How big is the global smart materials market?
- 3.What is the expected growth rate of the global smart materials market during 2025-2033?
- 4.What are the key factors driving the global smart materials market?

5.What is the leading segment of the global smart materials market based on the product?

6.What is the leading segment of the global smart materials market based on application?

7.What is the leading segment of the global smart materials market based on end use industry?

8.What are the key regions in the global smart materials market?

9.Who are the key players/companies in the global smart materials market?

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