

# Smart Materials - Global Market Outlook (2017-2026)

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## Abstracts

According to Statistics MRC, the Global Smart Materials Market is accounted for \$36.13 billion in 2017 and is expected to reach \$127.04 billion by 2026 growing at a CAGR of 15.0% during the forecast period. Some of the key factors fueling the market are demand for sensors and actuators in consumer goods and electronics and aerospace & defense. However, absence of high-end expertise during designing, manufacturing, limited commercial viability of the devices coupled with lack of awareness among end users hampers the market growth of smart materials market.

Smart materials, called also intelligent or responsive materials, are designed materials that have one or more properties that can be significantly changed in a controlled fashion by external stimuli, such as stress, moisture, electric or magnetic fields, light, temperature, pH, or chemical compounds. Smart materials are the basis of many applications, including sensors and actuators, or artificial muscles, particularly as electro active polymers.

Based on Application, Transducers segment is constantly enhancing due to its properties A transducer is a device that converts energy from one form to another. Usually a transducer converts a signal in one form of energy to a signal in another. Transducers are often employed at the boundaries of automation, measurement, and control systems, where electrical signals are converted to and from other physical quantities.

By Geography, North America is anticipated to exhibit the considerable growth due to primarily owing to significant demand for smart actuators & motors in key industries such as automotive, consumer goods, and aerospace. in this region.

Some of the key players in Global Smart Materials market are APC international Ltd., Ceram tech, Fine tubes Ltd., Harris corporation, Kyocera corporation, LORD

corporation, Noliac A/S, Piezo kinetics Inc., Smart material corporation and TDK corporation.

#### Applications Covered:

- Actuators & Motors
- Arthroscopy Surgeries
- Cardiovascular Surgeries
- Construction Industry
- Dampers
- ENT Surgeries
- Gastrointestinal Surgeries
- Heat Transfer
- Laparoscopy Surgeries
- Neuro/Spinal Surgeries
- Sensors
- Structural Materials
- Transducers
- Urology/Gynecology Surgeries
- Other Applications

#### Products Covered:

- Electrochromic Materials

Electro-Rheostatic

Magneto-Rheostatic

Piezoelectric Materials

Shape Memory Materials

Electrostrictive Materials

Magnetostrictive Materials

Phase Change Materials

Endoscope

Operative Devices

Visualization Systems

Smart Fluids

Smart Hydrogels

Smart Inorganic Polymers

Temperature-Responsive Polymers

Other Products

End Users Covered:

Aerospace

Automotive

Consumer Electronic

Defense

Healthcare

Industrial

Military

Automobile

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

Market share assessments for the regional and country level segments

Strategic recommendations for the new entrants

Market forecasts for a minimum of 9 years of all the mentioned segments, sub segments and the regional markets

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic analysis: Drivers and Constraints, Product/Technology Analysis, Porter's five forces analysis, SWOT analysis etc.

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

#### Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as

per the clients interest (Note: Depends of feasibility check)

### Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances.

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