

Armor Materials Industry: Exploring Market Trends and Innovations, Forecast, 2027

The global armor materials market size is projected to reach \$15.7 billion by 2027, growing at a CAGR of 5.3% from 2020 to 2027.

WILMINGTON, DE, UNITED STATES, January 2, 2025 /EINPresswire.com/ -- The study of the [armor materials market](#) by Allied Market Research evaluates the industry's scope, revenue potential, and growth projections while tracking current regional trends. It includes a qualitative analysis of various factors such as the immediate impact on market size, economic influences, regulatory landscape, opportunity outlook, and strategies employed by key players.



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Additionally, the research report features a company profile section that offers insights into individual companies, highlighting their key executives, product and service offerings, business segments, operational insights, R&D investments, and notable strategic developments. Also, the report encompasses an analysis of both regional and global markets. All information is derived from highly reliable sources and has been meticulously reviewed and validated by experts in the field.

Market dynamics

According to a report published by Allied Market Research, the armor materials industry is projected to generate a revenue of \$15.7 billion by 2027, rising at a CAGR of 5.3% from 2020 to 2027. The market was valued at \$10.6 billion in 2019. The surge in the usage of aluminum alloys in military vehicles such as personal carriers has increased the market growth significantly. Furthermore, the growing use of aluminum alloys as an ideal alternative for titanium alloys due

to their cost-effectiveness and corrosion resistance power have created wider growth opportunities for the market in the coming years. Furthermore, the growing concern from government over safety issues of body armor for police and military personnel has created wide growth opportunities for the landscape in the coming period. However, the use of metals and alloys in body armor makes the armor heavier compared to other materials like ceramic, which has hampered the growth to some extent.

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How is the introduction of next-gen armor materials revolutionizing the landscape?

In the past few years, researchers have started introducing innovative technologies and armor materials that enhance protective capabilities while reducing weight and improving comfort. Spider silk has emerged as a potential new material for body armor due to its remarkable strength and flexibility. Genetically engineered silkworms are being used to produce spider silk fibers, offering a lightweight alternative to conventional body armor.

Furthermore, the introduction of advanced polyethylene fibers is transforming the body armor landscape. New grades of UHMWPE (Ultra High Molecular Weight Polyethylene) composites, such as SB301, offer superior strength-to-weight ratios, resulting in thinner and more flexible soft armor systems.

Similarly, the transition from traditional tactical vests to modular scalable vests allows for greater customization and comfort. These vests utilize lightweight materials and innovative designs to enhance mobility while maintaining protection levels.

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Competitive scenario

This research report explores the armor materials market, offering an in-depth analysis of leading vendors and major market players. These key companies are strategically positioned to influence market trends through various initiatives, including mergers and acquisitions, partnerships, new product launches, and collaborative efforts. The report highlights how these strategies are shaping the competitive landscape and driving innovation within the sector.

Major companies profiled in the study include:

3M

Honeywell International Inc.

DSM

CERAMTEC

KONINKLIJKE TEN CATE BV.

ATI

CoorsTek, Inc.

Saint-Gobain

CoorsTek, Inc.,

SAAB AB

DuPont

In summary, the AMR study on the armor materials market provides actionable data on various aspects of the industry. The segmental and regional analyses included in this report help businesses to better understand the evolving dynamics of the sector, enabling them to formulate their strategies effectively.

Access Full Summary Report: <https://www.alliedmarketresearch.com/armor-materials-market-A06826>

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We are in professional corporate relations with various companies and this helps us in digging out market data that helps us generate accurate research data tables and confirms utmost accuracy in our market forecasting. Allied Market Research CEO Pawan Kumar is instrumental in inspiring and encouraging everyone associated with the company to maintain high quality of data and help clients in every way possible to achieve success. Each and every data presented in the reports published by us is extracted through primary interviews with top officials from leading companies of domain concerned. Our secondary data procurement methodology includes deep online and offline research and discussion with knowledgeable professionals and analysts in the industry.

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