

# Armor Materials Market worth \$26.40 billion by 2030, growing at a CAGR of 7.60% - Exclusive Report by 360iResearch

*The Global Armor Materials Market to grow from USD 14.68 billion in 2022 to USD 26.40 billion by 2030, at a CAGR of 7.60%.*

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EINPresswire.com/ -- The "[Armor Materials Market](#) by Material Type (Ceramics, Composites, Fiberglass), Application (Aerospace Armor, Body Armor, Marine Armor) - Global Forecast 2023-2030" report has been added to 360iResearch.com's offering.



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Armor materials are utilized as protective clothing against any influence of projectiles or other weapons. Advanced ceramics are broadly used to produce lightweight body armors that are efficient against bullets. The armor is made of advanced fiber known to absorb the impact of bullets by dispersing the energy across a large area of the armor. The rising need for lightweight armor material, increasing demand for armor materials in aerospace, military vehicles, and marine armor systems, and government investments are escalating the adoption of the armor materials market. The advancement of lethal ammunition and weapons is further estimated to cushion the growth of the armor materials market. However, fluctuating prices of raw materials and concerns related to body armor mechanics and design may limit the market adoption by the end-user sector. In addition, the military modernization programs further provide potential opportunities for the growth of the armor materials market in the future.

Application: Rising need of armours from aerospace and marine sector

Aerospec armor is a craftable pre-hardmode armor pack made with aerialite bars and other floating island materials. Body armor is protective clothing that someone wears to absorb and deflect from physical attacks that might otherwise harm them and is majorly used by police, private security guards, bodyguards, and occasionally ordinary civilians. Marine armor is a power armor that forms a complete set along with the marine helmet and can effectively block gunshots, cuts, blunt trauma, and burns.

Material Type: Increasing utilization of Ultra-high molecular weight polyethylene due to its high wear resistivity

Ceramic materials are lightweight, have a high degree of hardness, provide high-performance armor protection, and control microstructures to ensure durability and performance. Composite baked armor is lighter and more robust and consists of different materials such as metals, plastics, or ceramics that together provide an armor that is more assertive and more lightweight than traditional pure metal armor. Fiberglass is more lightweight, flexible, and easily machinable than most metals, making the material infinitely more suited for architectural ballistic protection applications. Ultra-high molecular weight polyethylene has high wear resistance, toughness, durability, and biocompatibility and is commonly used as a bearing material with ceramic or metallic counter surfaces in joint arthroplasty.

Regional Insights:

The Americas has a prominent landscape in the armor materials market owing to the rise in demand for homeland security applications and the creation of cutting-edge armor systems and materials for automobiles and aerospace. Additionally, the berry amendment acts in the U.S. for using domestically made goods and armor materials supported the expansion of regional growth. The United States is a prominent consumer of armor materials globally, owing to the highest military expenditure, and has the most significant military force globally. Asia-Pacific is a developing region in the armor materials market due to rising consumption from emerging economies. Also, the region's growing political and civil unrest has increased the demand for armor materials. Increasing terrorist threats and political tension between ISIS attacks in some of the Middle East and Europe countries are leading to an increase in counter-terrorist operations and preventive measures. Rising military expenditure for new product development and advancement in security-related products have increased the need for armor materials in the region.

FPNV Positioning Matrix:

The FPNV Positioning Matrix is essential for assessing the Armor Materials Market. It provides a comprehensive evaluation of vendors by examining key metrics within Business Strategy and Product Satisfaction, allowing users to make informed decisions based on their specific needs. This advanced analysis then organizes these vendors into four distinct quadrants, which represent varying levels of success: Forefront (F), Pathfinder (P), Niche (N), or Vital(V).

## Market Share Analysis:

The Market Share Analysis offers an insightful look at the current state of vendors in the Armor Materials Market. By comparing vendor contributions to overall revenue, customer base, and other key metrics, we can give companies a greater understanding of their performance and what they are up against when competing for market share. The analysis also sheds light on just how competitive any given sector is about accumulation, fragmentation dominance, and amalgamation traits over the base year period studied.

## Key Company Profiles:

The report delves into recent significant developments in the Armor Materials Market, highlighting leading vendors and their innovative profiles. These include 3M Company, AGY Holding Corporation, Allegheny Technologies Incorporated, ArmorWorks, AVIENT Protective Materials B.V., BEIJING V-GREAT INTERNATIONAL TRADE CO., LTD., BHP Armor, CeramTec GmbH, Clifton Steel Company, Compagnie de Saint-Gobain S.A, CoorsTek, Inc., DuPont de Nemours, Inc., Guodun Armor Limited, HIGHCOM ARMOR SOLUTIONS, INC., Honeywell International Inc., Indian Armour Systems Pvt. Ltd., Koninklijke Ten Cate B.V, MARS Armor, MASADA ARMOUR SOY LTD., NP Aerospace, Paxis Ceramics, PPG Industries Inc., Rheinmetall AG, SafeGuard Armor., Schunk Ingenieurkeramik GmbH, Surface Armor LLC, Tata Steel Limited, Teijin Aramid B.V., and WhiteHorse R&D, Inc..

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## Market Segmentation & Coverage:

This research report categorizes the Armor Materials Market in order to forecast the revenues and analyze trends in each of following sub-markets:

Based on Material Type, market is studied across Ceramics, Composites, Fiberglass, Metals & Alloys, Para-Aramid Fiber, and Ultra High Molecular Weight Polyethylene. The Metals & Alloys commanded largest market share of 32.43% in 2022, followed by Composites.

Based on Application, market is studied across Aerospace Armor, Body Armor, Marine Armor, and Vehicle Armor. The Vehicle Armor commanded largest market share of 39.11% in 2022, followed by Body Armor.

Based on Region, market is studied across Americas, Asia-Pacific, and Europe, Middle East & Africa. The Americas is further studied across Argentina, Brazil, Canada, Mexico, and United States. The United States is further studied across California, Florida, Illinois, New York, Ohio, Pennsylvania, and Texas. The Asia-Pacific is further studied across Australia, China, India,

Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, Thailand, and Vietnam. The Europe, Middle East & Africa is further studied across Denmark, Egypt, Finland, France, Germany, Israel, Italy, Netherlands, Nigeria, Norway, Poland, Qatar, Russia, Saudi Arabia, South Africa, Spain, Sweden, Switzerland, Turkey, United Arab Emirates, and United Kingdom. The Europe, Middle East & Africa commanded largest market share of 39.34% in 2022, followed by Americas.

#### Key Topics Covered:

1. Preface
2. Research Methodology
3. Executive Summary
4. Market Overview
5. Market Insights
6. Armor Materials Market, by Material Type
7. Armor Materials Market, by Application
8. Americas Armor Materials Market
9. Asia-Pacific Armor Materials Market
10. Europe, Middle East & Africa Armor Materials Market
11. Competitive Landscape
12. Competitive Portfolio
13. Appendix

The report provides insights on the following pointers:

1. Market Penetration: Provides comprehensive information on the market offered by the key players
2. Market Development: Provides in-depth information about lucrative emerging markets and analyzes penetration across mature segments of the markets
3. Market Diversification: Provides detailed information about new product launches, untapped geographies, recent developments, and investments
4. Competitive Assessment & Intelligence: Provides an exhaustive assessment of market shares, strategies, products, certification, regulatory approvals, patent landscape, and manufacturing capabilities of the leading players
5. Product Development & Innovation: Provides intelligent insights on future technologies, R&D activities, and breakthrough product developments

The report answers questions such as:

1. What is the market size and forecast of the Armor Materials Market?
2. Which are the products/segments/applications/areas to invest in over the forecast period in the Armor Materials Market?
3. What is the competitive strategic window for opportunities in the Armor Materials Market?
4. What are the technology trends and regulatory frameworks in the Armor Materials Market?
5. What is the market share of the leading vendors in the Armor Materials Market?

6. What modes and strategic moves are considered suitable for entering the Armor Materials Market?

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