

Armor Material Requirements For US Military Ground Vehicles

Vector Strategy's **Armor Material Requirements For US Military Ground Vehicles** provides a scenario of material requirements to meet Department of Defense (DOD) annual procurement of armor for military ground vehicles. The report provides clients with an outlook for steel, aluminum, titanium, ceramic, ballistic fibers and composites, and transparent armor materials. The report covers a time horizon of 2005 to 2020 and provides data in pounds (weight), square feet, and dollars of market value. The report also discusses trends in armor design, vehicle protection levels, and armor material market prices.

Materials Addressed in This Report

- Advanced Transparents
- Aluminum
- Aluminum Oxide Ceramic Material
- Aramid Fiber
- Depleted Uranium
- Energetic Material
- High Hard Steel
- High Performance Glass Fiber
- Other Ceramic
- Other Fiber
- Other Metal
- Other Opaque Material
- Other Transparent Material
- Polycarbonate
- Polypropylene Fiber
- Resin
- RHA Steel
- Silicon Carbide Ceramic Material
- Specialty Steel
- Titanium
- Traditional Transparent Glass
- UHMWPE Uni-Directional Material
- Urethane



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Report Objective

This report provides a scenario of material requirements to meet Department of Defense (DOD) annual procurement of armor for military ground vehicles. The report provides clients with an outlook for steel, aluminum, titanium, ceramic, ballistic fibers and composites, and transparent armor materials.

The report covers a time horizon of 2005 to 2020 and provides data in pounds (weight), square feet, and dollars of market value.

The report also discusses trends in armor design, vehicle protection levels, and armor material market prices.

Methodology

Vector Strategy engages in both primary and secondary research to gather armor market intelligence.

Vector Strategy has developed armor design assumptions for 150 different armor solutions and has developed a forecast model to allow for design changes in these assumptions on an annual basis from 2005 to 2020.

A concerted effort has been made to link armor designs to assumed protection levels for each vehicle platform in the model.

By estimating the surface area of a vehicle that is covered with armor, and using assumed areal density and armor design, Vector Strategy has calculated armor material requirements by multiplying the percent of total kit weight that each material represents, by total kit weight, by the annual number of kits procured.

Who Should Buy This Report

This report is essential for business executives responsible for designing or manufacturing armor kits, armored vehicles, or components utilized in the production of vehicle and armor such as composites, ballistic fabrics, ceramics, and metal alloys.

The report provides information needed to develop effective business plans, generate capital investment strategies, and focus your company's business development activities.

Report Format

The report will be provided in an electronic format (PDF) with full text commentary. All data tables and charts are provided in the PDF document. The report is 92 pages long and contains 74 figures.

Publication Dates and Price

This report was originally published in 2008 and this 2011 document is the 2nd release of this report.

The report may be purchased for the price of \$5,995 for a single site license and \$8,995 for an enterprise wide license. A military / government discount of 15% is offered. **This price includes both the 2011 report and a 2012 update.**

Due to the current uncertain funding environment, clients might be hesitant to purchase a report now with the many procurement and funding unknowns facing this industry. So Vector Strategy will be providing an updated set of armor material requirements to all clients who purchase the 2011 report. That update will be provided after the FY13 DOD budget request is released, which typically happens in early February. The 2012 update will be included in the 2011 purchase price of the report.

Payment must be made in full before a report will be shipped to purchasers. Purchases may be made via credit card or Electronic Funds Transfer (EFT). Please contact our office at 910-420-2208 for more information or complete and fax back the order form on the last page of this brochure.

About Vector Strategy, Inc.

Vector Strategy, Inc. is based in Southern Pines, NC near Ft. Bragg. We offer reports, publications, and other market research services in the military armor industry.

We help your company stay abreast of technology trends, government procurement, market size and growth, industry players, supply chain issues, and other intelligence that business executives need to make informed decisions and build effective strategic plans.

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Conclusions From The Report

- 2011 armor material requirements represent roughly 30% of 2008's peak armor material requirements.
- Armor material prices have declined substantially from 2008, with great variability in that price decline from material to material
- After a funding retrenchment in 2012-13, demand for armor materials will gradually recover through 2020 as modernization programs for existing vehicle programs and new vehicle platforms reach Milestone C and full rate production.
- Over the time horizon of the report, a trend of increasing vehicle protection levels from kinetic energy threats is evident.
- A shift in vehicle armor applications from add-on-armor to integrated armor is evident over time. This shift applies to both protection from kinetic energy threats and IED/mine protection.
- Light tactical vehicles are the major contributor to armor material requirements in 2015 to 2020.
- By 2020, ceramic material is deployed within armor solutions for a broader range of vehicle platforms and for a broader range of Stanag protection levels.
- Transparent armor requirements for field replacements decline substantially as troops and equipment are withdrawn from theater.

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Table of Contents.

List of Figures.

Sample pages from the report.



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Armor Material Requirements For US Military Ground Vehicles (Includes 2011 Report and a 2012 Update):

- \$5,995 - Single Report Release; Corporate Single Site License (Unlimited users within a specific site, location, or division; or small company).
- \$8,995 - Single Report Release; Corporate Enterprise License (Unlimited users across all locations and multiple divisions within a corporate entity).

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