

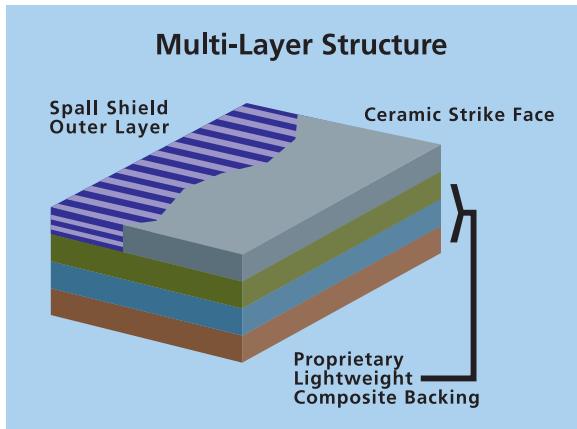
Composite Armor Solutions

Texstars is a fully integrated fabricator utilizing advanced composite ballistic materials for both military ground vehicle and aerospace markets.

A lightweight armor system for defense against a high explosive incendiary projectile is characterized by a lightweight armor trigger placed in front of and spaced from a relatively heavier main armor. The trigger plate may consist of a ceramic-fiberglass sandwich and the main armor a one-half inch thickness of aluminum backed by a built-up layer of ballistic nylon webbing and sealed by a layer of rubber sheeting. The space between the trigger plate and the main armor may be filled with a material having flame suppressive characteristics to lessen the incendiary effect of the projectile.

Ballistic articles such as bulletproof vests, helmets, structural members of helicopters and other military equipment, vehicle panels, briefcases, rain-coats and umbrellas containing high strength fibers are known.

Fibers conventionally used include aramid fibers such as carbon fibers, nylon fibers, ceramic fibers, glass fibers and the like. For many applications, such as vest or parts of vests, the fibers are used in a woven or knitted fabric. For many of the applications, the fibers are encapsulated or embedded in a matrix material.



Cutting edge non-metallic materials and processes are utilized to provide protection under the most demanding conditions.

Innovative advanced lightweight, multi-threat materials such as ceramics, ballistic-fiber textiles and other composites can be laminated to your specifications. These materials exhibit inherent corrosion-resistance and non-magnetic characteristics not affected by temperature, vibration, shock or exposure to severe conditions.

Lean principles and practices are integrated into every activity, process and operation to minimize touch time and associated costs while maximizing customer satisfaction.

Texstars' Nadcap AC7118 accreditation for the fabrication of composite materials in the aerospace defense world strongly states our commitment to excellence. This experience and new standard for quality carries over in providing high-quality, on-time, build-to-print composite lamination panels and shapes to your specifications.

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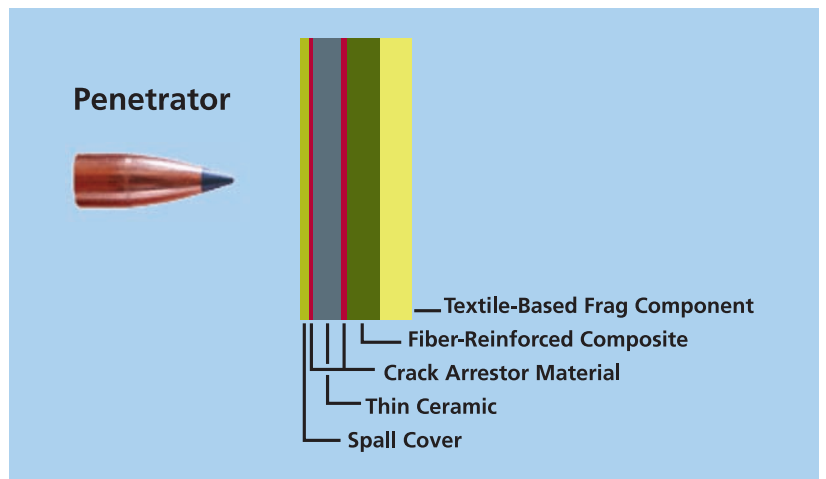
Composite armor, made from inherently low observable materials, resists chemical agents and is capable of significant weight savings for specified applications. This type of passive armor is designed to absorb the energy of the impact from a given threat. The greatest focus in composite armor is to continue developing lightweight armor solutions for future applications and Texstars can fabricate to your specifications.

Drawing from our vast experience in the fabrication of state-of-the-art composite components in the aerospace industry, Texstars can fabricate lightweight armor solutions with greater protection against threats faced on today's battlefield. With new non-metallic materials and processes emerging to enhance or even replace traditional steel armor, the advantages in weight savings and formability hold immense potential.

Saving the lives of our troops is our primary goal. Enhancing survivability conditions for them is our means. Texstars is here to assist you in achieving these objectives.

Ballistic-resistant polyethylene armors are the lightest ballistic-resistant opaque armor panels that current technology can produce. They are excellent for vehicle, body armor and all types of aircraft applications. In addition to lower weights, they exhibit excellent molding and shape-forming capabilities.

Ballistic resistant polyethylene armor will encapsulate the impacting projectile as it penetrates the various layers, thereby eliminating the typical ricochet that is inherent in hardened steel armors.



Military Ground Defense Solutions

- Aircraft Armor
- Vehicle Armor
- Marine Armor
- Blast Protection
- Body Armor
- Transparent Armor

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