

## Body Armor and Vehicle Armor Solutions for Your Safety



- UD Materials
- Soft & Hard Ballistics
- Vehicle Armor Kits
- Tailor-Made Solutions

## Ballistic Protection Materials & Solutions



## Vehicle Armor

### Vehicle Armor Panels

Composite armor for civil or military vehicles are made as flat or 3D-shaped panels. FMS panels are available in a variety of forms with sizes up to 1600x2500 mm. FMS offers both Pressed Aramid and pressed FAMOSTONE (UHMW-PE) panels for protection against handgun bullets and fragments, providing up to NIJ level IIIA and EN level BR4 protection. FMS FAMOSTONE high-pressure pressed panels provide higher protection levels. They are used for the protection against guns and assault rifles, providing protection up to NIJ level III+ and EN level BR6. FMS panels can also be customized with different finishes, such as plastic cover or rubberized coating for better protection to extreme temperatures, diesel fuel, water, oil and severe vibrations.



### Composite Armor Kits

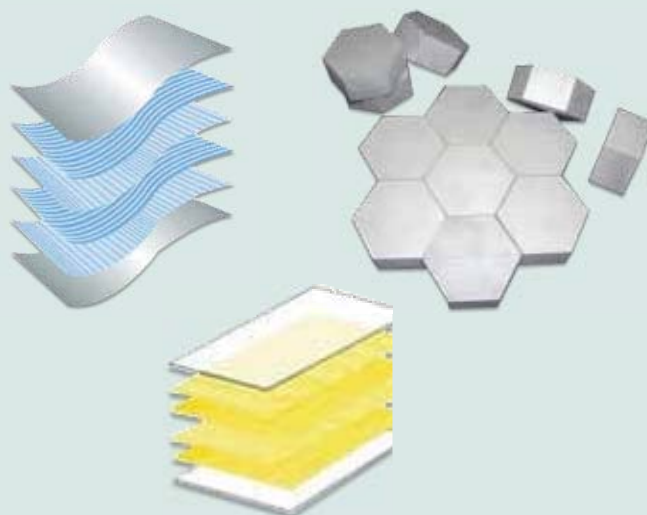
FMS composite armor consists of ceramic strike face and polymer backing. The ceramics used include Boron-Carbide (B4C), Silicon-Carbide (SiC) and Alumina (Al<sub>2</sub>O<sub>3</sub>), while the backing is made from pressed UD fabrics including FAMOSTONE (UHMW-PE) and UD Aramid.

FMS Ceramic and Steel Composite Armor solutions offer exceptional performance at extreme temperatures, enhanced water and chemical resistance, fire-retardancy, low blunt trauma and long-lasting lifecycle. The composite armor provides multi-hit protection against high-speed and armor-piercing projectiles and withstands threats such as NIJ level IV, EN level BR7, STANAG level 3 and higher threat levels.



### Raw Materials

FMS raw materials include Ultra High Molecular Weight Polyethylene (UHMW-PE) Uni-Directional (UD) fabrics and Aramid UD fabrics, which are used in a wide spectrum of ballistic protection applications. Such fabrics combine Polyethylene (or Aramid) fibers in a thermoplastic matrix that is capable of absorbing and dispersing high impact energy. Each fabric layer consists of fiber tapes cross-plied at 0°/90°.



All panels are produced in compliance with NIJ 0101.04 / 06 for personnel armor, and NIJ 0108.01, EN 1063 and STANAG 4569 standards for vehicle armor.