



Kevlar and Carbon Composite Armored Gauntlet

BENEFITS

- Lightweight protection that can be worn on upper or lower limbs
- Carbon-composite inserts mitigate blunt force trauma, penetration, or shredding that can be caused by firearms, explosives, and debris
- Kevlar® provides heat protection along with similar protection characteristics of the carbon composite

APPLICATIONS

- Body armor
- Weapons protection
- Outdoor sporting protection

PATENT NUMBER

- 7571493

SD#

- 7675

INTELLECTUAL PROPERTY & LICENSING CONTACT

Virginia Cleary
505.284.8902
vdclear@sandia.gov

Summary

The primary purpose of the “Kevlar Gauntlet” is to provide military personnel with much needed, lightweight protection while in combat. A particular threat to U.S. soldiers are rocket propelled grenades (RPGs) and improvised explosive devices (IEDs) which can create significant risks to safety as a result of debris, shrapnel, spall, superheated air blasts, and shock waves. The gauntlet, which can be worn on the arms for soldiers

operating atop Bradley Fighting Vehicles and armored HUMVEEs, will protect the soldiers’ exposed arms and shoulders which are not protected by traditional body armor vests. Alternately, the gauntlets can be worn on the legs as protection *inside* a vehicle that may not have armored doors or any doors at all.



The lightweight armored garment is made of a ballistic fabric such as KEVLAR® along with more rigid armored carbon composite inserts that protect against high-velocity projectiles, shrapnel, and spall. The combination of these layers meets level IIIA fragmentation minimum for the US Interceptor Outer Tactical Vest.

Technology Readiness Level– TRL 7/8:

Sandia estimates that the product technology is a TRL 7/8. It has been proven to work in its near final form under relevant, expected conditions. Minor improvements

Licensing & Partnering Status:

Various license and partnering options are available. Please contact the Intellectual Property department to discuss.



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