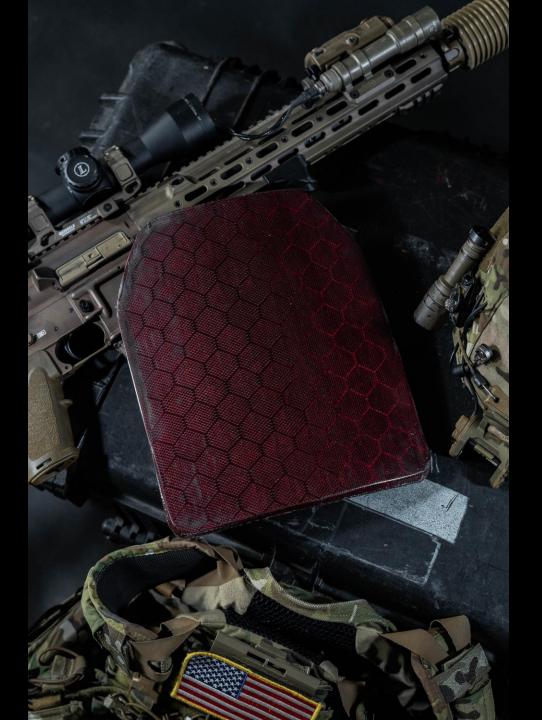


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**Graphene Nano-composite**Armor Systems

Lighter

Thinner

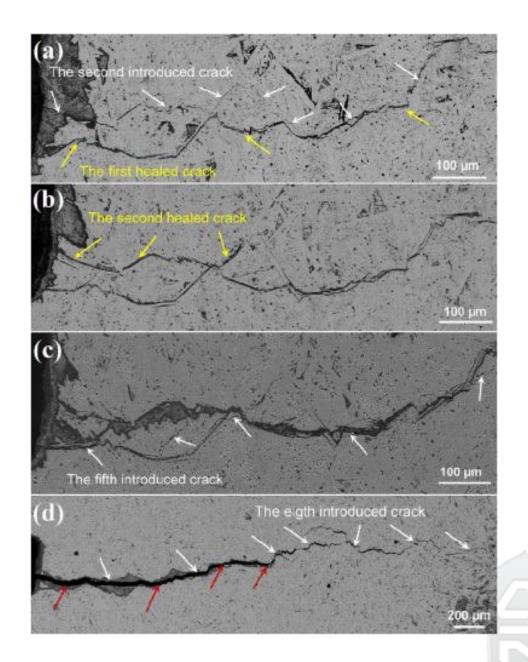
Stronger



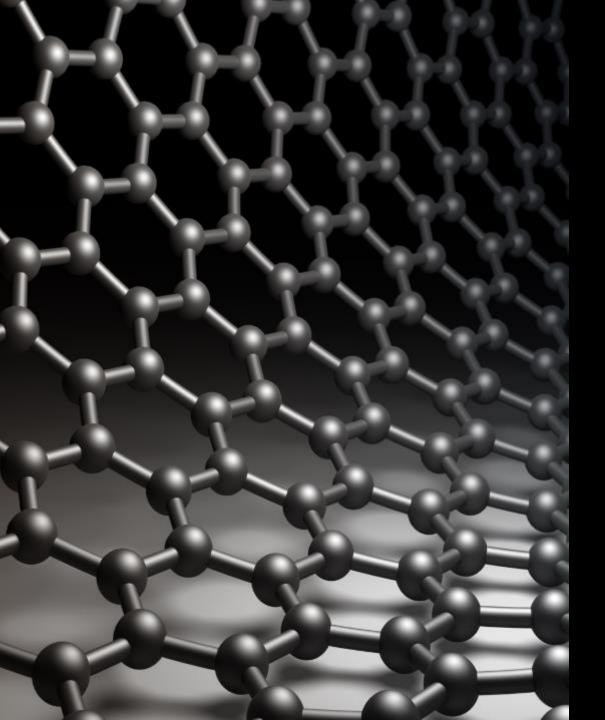


# Disadvantages of **Current Ceramic-Based Armor Systems**

- Susceptible to Fractures and Microcracks
  - Equating to Potential LETHAL failures
- Regular X-ray inspections
  - Required to determine serviceability
  - Adds expense and "out of service" time
- Documented Lethal Fragments
- Increased back face deformation with multiple hits
- Maximum 5 years Shelf Life







### THE SOLUTION: GRAPHENE

- Graphene is made up of a single layer of carbon atoms
- The atoms are arranged in a hexagonal lattice lending to its extreme strength
- Graphene is the strongest material discovered by science.
- 200x stronger than steel.
- Since its discovery in 2004 all other armor manufacturers have been unsuccessful in adapting it into a modern armor system that defeats AP Rounds

### ARMOR FORGE GRAPHENE NANOCOMPOSITE ADAPTABLE USE CASES

- First to market patented graphene-based nano-composite rifle plate
- Technology is adaptable to ground based drones, personal ballistic body armor, and up armoring of vehicles, weapons platforms and more
- Extreme Durability
- Special threat rated to modern armor piercing rounds and scalable to user needs
- Minimal back face deformation and increased warfighter combat effectiveness
- Unique capabilities and end user adaptable feature sets





Durability of AF next Generation Systems

 Drop and Impact proof from high velocity fragmentation and indirect fire

No X-ray Schedule to verify integrity

 Shots can be made within .75" or less from plate edge

 Able to stack rounds within 1 inch or less across the entire plate face

• 10+ year lifespan



**Special Threat Rated to Stop:** 

• M855 (Armor Piercing 5.56) 3150+ FPS

7.62x39 MSC
 (M43(Soviet) (MSC)
 2400+ FPS

M193

 (5.56 level 3 defeating AP)
 3200+ FPS

### M80

(.308) 2800+ FPS

Fits in Current Generation carrier systems.

Scalable to additional threats as needed.

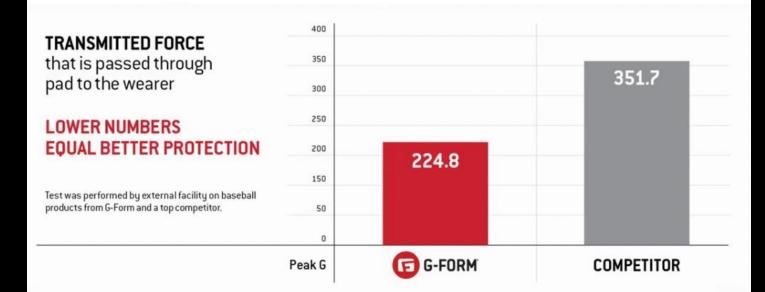






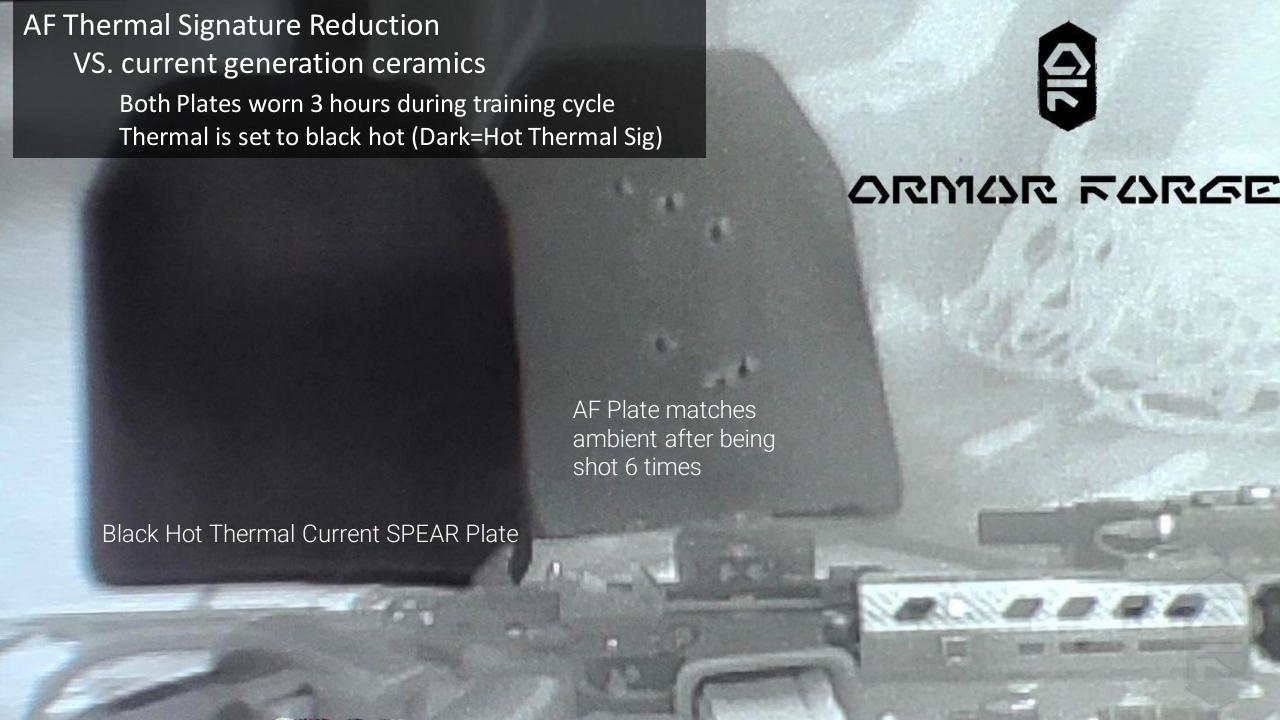
#### G-Form® Non-Newtonian Trauma Pad

- Removable from plate like current helmet padding systems
- Hydrophobic
- Superior Warfighter comfort
- Machine washable
- Absorbs energy and returns to original shape after impact
- Up to 30% reduction in back face energy transfer to warfighter
- Technology is scalable and will continue to improve plate performance over time

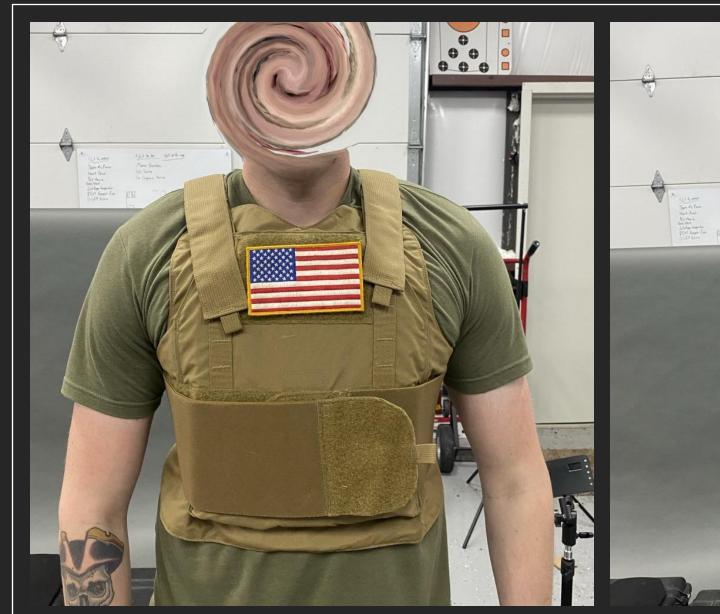


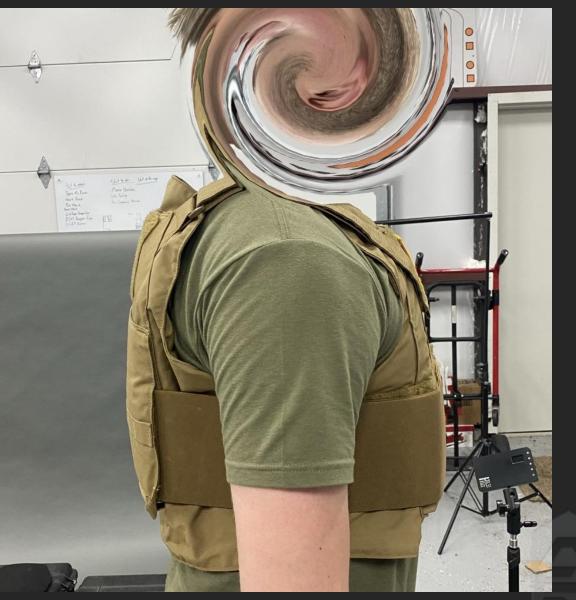












Low Visibility for Special Operations and Low Profile Needs





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