Saint-Gobain Crystals is the pioneer in offering SAFirE™ Transparent Armor Solutions to address the ever increasing demands of ballistic performance at a reduced weight and thickness. Results from our latest designs have shown greater than a 50% reduction in weight and thickness at the same ballistic performance as traditional glass solutions.

Our transparent armor product line incorporates EFG™ Sapphire, 2nd in hardness to diamond, which provides an extremely hard and abrasion resistant strike face that ‘breaks’ the projectile upon impact. SAFirE™ solutions have been designed to meet a variety of ballistic threats, while providing improved situation awareness in both the visual and infrared spectra. SAFirE is currently being used in both ground vehicle and rotary wing platforms for the US Military.
Significant Abrasion and Chemical Resistance with SAFiRE™ Armor

~40% Improvement in Night Vision Transmittance over Traditional Glass Armor

>50% Reduction in Thickness Using SAFiRE™ Armor to Defeat the Same Threat

![Graph showing Areal Density (psf) for Glass Armor and Sapphire Armor across different STANAG Multi Shot Test Levels.]

- 27.2% decrease for Glass Armor (58% reduction)
- 11.4% decrease for Sapphire Armor (65% reduction)

Side by side comparison of SAFiRE and traditional glass armor

Schematic of SAFiRE and traditional glass armor

- SAFiRE
- Sapphire
- Polymer
- Glass

~40% Improvement in Night Vision Transmittance over Traditional Glass Armor

Significant Abrasion and Chemical Resistance with SAFiRE™ Armor

Manufacturer reserves the right to alter specifications.
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