

# ARMOR<sup>AP</sup>

with filament twill technology

## STEP UP YOUR GAME WITH THE BEST DUPONT NOMEX/KEVLAR OUTER SHELL BLEND

For the last two decades, fire departments choosing outer shells made of 40% DuPont™ Nomex®/60% DuPont™ Kevlar® have been limited to stiff and uncomfortable gear...until now. Utilizing the groundbreaking Filament Twill Technology™ used in PBI Max™, Safety Components is launching Armor AP™ to fill the needs of firefighters who prefer improved mobility, improved durability, and improved protection at an economical price. Armor AP — a 6.5 oz. outer shell with absolute performance.

“ 70%

of the Top 10

Metro Cities specify

Safety Components

protective fabrics. ”



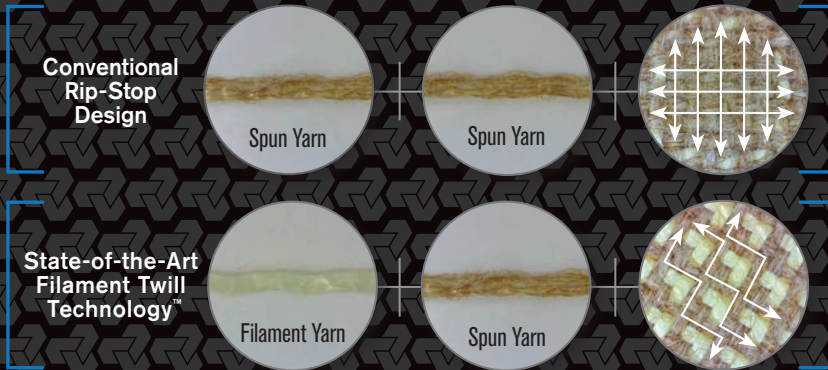
SAFETY COMPONENTS

PROVEN PROTECTION. PROVEN PERFORMANCE. PROVEN DURABILITY.



# Turnout Gear Fabric Technologies

**ARMORAP**<sup>™</sup>  
with filament twill technology



Stiff  
Uncomfortable  
Heavy  
Weak

Flexible  
Comfortable  
Lighter Weight  
Strong

**BLEND:** **Gold/Black**  
80% Nomex®/Kevlar spun yarns  
20% 400 denier Kevlar filament

**Khaki**  
80% Nomex/Kevlar/Teijinconex® spun yarns  
20% 400 denier Kevlar filament

**WEIGHT:** 6.5 oz.

**WEAVE:** Comfort Twill with Filament Twill Technology

**COLOR:** Gold, Khaki, Black

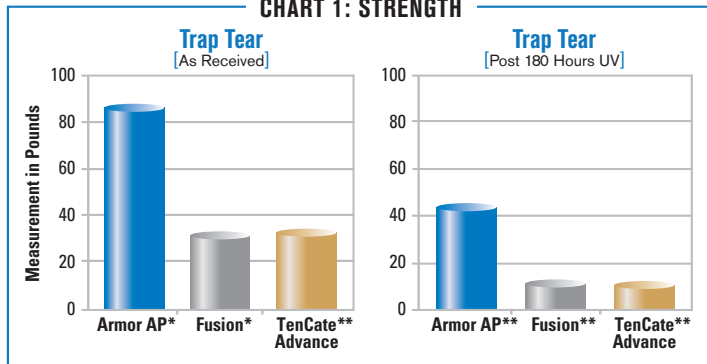
## Absolute Performance

How does one achieve absolute performance utilizing the same fibers (meta-aramid, para-aramid) used to make Fusion™ and TenCate Advance™...and not increase the cost 25-50%? The answer lies in Filament Twill Technology™ (see diagram above). Like PBI Max™, Armor AP™ is powered by DuPont™ Kevlar® filament in a twill weave. The result is a lighter weight outer shell (6.5 oz.) with improved comfort/flexibility, improved strength and durability, and equal to improved protection.

## Improved Durability

Most firefighters agree longevity in turnout gear comes from better tear strength. While some companies try to spin abrasion as the most important indicator of durability, turnout gear isn't retired from holes due to abrasion. Turnout gear is retired when it starts ripping and tearing from "wear and tear" and UV degradation. DuPont Kevlar filament allows Armor AP to resist tearing (see chart 1) for a longer period of time than traditional outer shells like Fusion and TenCate Advance...improving durability.

**CHART 1: STRENGTH**

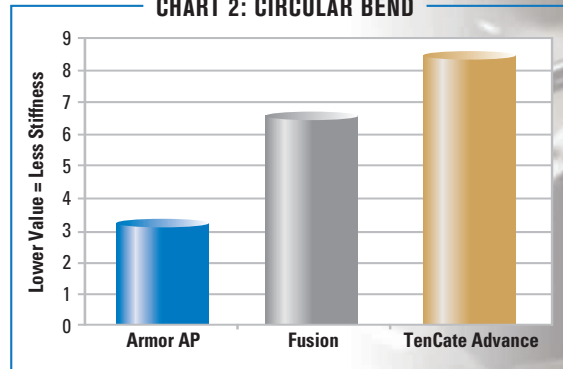


Strength values denote lowest value of warp or fill. \*UL test results. \*\*Independent lab results.

## Improved Comfort/Flexibility

Protection and durability are important characteristics of any outer shell...but so is comfort and flexibility. Better comfort and flexibility (see chart 2) lead to better mobility. Better mobility can make all the difference in a life threatening situation. Firefighters wearing Fusion and TenCate Advance don't need to sacrifice mobility any longer...Armor AP is the answer.

**CHART 2: CIRCULAR BEND**



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Safety Components maintains ISO 9001:2000, TS 16949 and ISO 14001 certifications. Our fabric testing laboratories are ISO 1725 approved, ASTM (North America), DIN (Europe), JIS (Asia), and NFPA certified. Throughout our 100 year history, Safety Components has developed a reputation for product quality, product innovation, product diversity and on-time delivery.

Intellectual property contained in Armor AP is protected by US patent numbers 8793814, 8819866, 9364694, 6065153, 6192520, 6606749, 6886184 and 7581260.

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open the future™