

The logo for Armor AP, with 'ARMOR' in black, 'AP' in red, and a small red triangle above the 'A'. Below it, the text 'with filament twill technology' is underlined in red.

ARMOR^{AP}
with filament twill technology

ABSOLUTE PERFORMANCE

with the best Meta-Aramid
Outer Shell Blend

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

HIGH-PERFORMANCE
OUTER SHELL

IMPROVED DURABILITY

Every firefighter knows longevity in turnout gear comes from better tear strength. While some may claim abrasion is the most important indicator of durability, it is known that 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. Para-Aramid filament allows Armor AP to resist tearing (see chart 1) for a longer period of time than traditional outer shells like Pioneer and Advance...improving durability. Armor AP is the only Nomex®/Kevlar® outer shell on the market that contains filament technology.

IMPROVED COMFORT AND 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 critical situations—firefighters wearing fabrics made of 100% spun yarns need not sacrifice mobility any longer...Armor AP is the answer.

TECHNICAL INFORMATION

COMPOSITION

80% Meta/Para-Aramid spun yarns
20% 400 denier Para-Aramid filament

WEIGHT

(sq.yd.): **6.5 oz**

STRENGTH

Trap Tear test:
84 lbs as received
20 lbs after 180 Hours UV

WEAVE

Comfort Twill

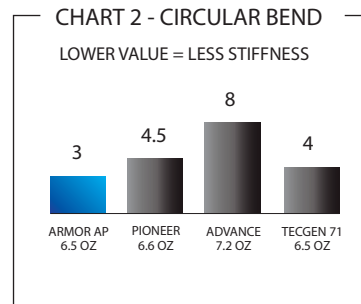
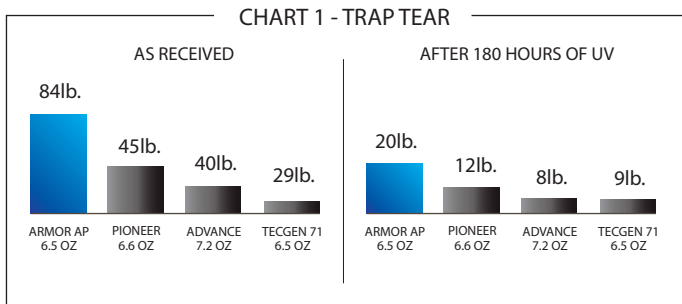
COLOR

Gold, Khaki & Black

YARN

20% 400 denier filament
80% Spun

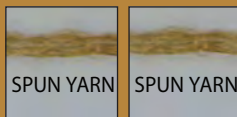
LEARN MORE



TURNOUT GEAR FABRIC WEAVES

GOOD

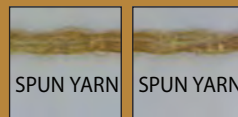
Conventional Rip-Stop Design (90-100% Spun Yarns)



TenCate Advance™
 TenCate PBI XT
 (formerly TenCate Gemini™ XT)

BETTER

Basic Twill Fabric Blends (100% Spun Yarns)



TenCate Pioneer™
 TenCate Agility™
 TenCate PBI Stretch

BEST

State-of-the-Art Filament Twill Technology (Filament Yarns & Spun Yarns)



PBI Max
 Armor AP

FILAMENT TWILL TECHNOLOGY

Filament Twill Technology is a fabric technology patented by Safety Components in 2012. Compared to other fabric technologies like "conventional rip-stop" and "basic twill" designs, Filament Twill fabric designs are lighter and stronger both new and after UV Exposure.