



ARMOR 7.0™

MAXIMUM PROTECTION IN EXTREME CONDITIONS

In Armor 7.0™, Safety Components brings together America's most trusted names in personal protection to offer firefighters and first responders an innovative outer shell fabric with new Filament Fiber Technology. Armor 7.0 combines military grade DuPont™ Kevlar®, solution dyed DuPont™ Nomex® and DuPont™ Kevlar® fibers to form a power shield of protection. This revolutionary blend of fibers provides added thermal protection, excellent tear and rip resistance to create the world's strongest aramid outer shell fabric.



70%

of the Top 10

Metro Cities specify

Safety Components

protective fabrics.



SAFETY COMPONENTS

PROVEN PROTECTION. PROVEN PERFORMANCE. PROVEN DURABILITY.

SUPERIOR STRENGTH 4X POWER	ARMOR _{7.0}	TRADITIONAL NOMEX®/KEVLAR® BLENDS
Weight (osy)	7.0	7.5+
Tensile Strength (lbs.) (ASTM-D-5034)	Excellent 567	Average 236
Tear Strength (lbs.) Initial (ASTM-D-5587)	Excellent 140	Average 32
Tear Strength (lbs.) After 120 Hours UV (ASTM-D-5587)	99	14
Tear Strength (lbs.) After 180 Hours UV (ASTM-D-5587)	33	10

All data was generated by independent labs with no association to Safety Components.
 **All values denote the lowest data point in the warp or fill direction of the fabric.

ARMOR_{7.0}

FIBER BLEND: 50% DuPont™ Filament Kevlar®
 50% DuPont™ Nomex® Kevlar®
 Ring Spun

WEIGHT: 7.0 oz. (sq. yd.)

WEAVE: Comfort-Twill

COLOR: Gold and Black

FINISH: DuPont™ Teflon® F-PPE



Lighter Weight

Armor 7.0 is lighter and nearly four times stronger than the nearest challenger. By introducing military grade filament Kevlar in place of staple fibers, Armor 7.0 more than doubles the fabric strength of traditional Nomex/Kevlar blended outer shells. This powerful combination of fibers allows Armor to lighten the load without sacrificing protection or durability.

Maximum Mobility

Armor 7.0 is woven into a "Comfort Twill" weave for the most flexible, comfortable, and lightest weight fabrics ever created for turnout gear. By combining an outer shell of 50% Kevlar Filament Fiber Technology into our special weave, Armor gives the feeling of wearing your favorite weekend jeans. Stop fighting your gear and get into Armor 7.0.

Built Tough

With fabric tensile strength properties exceeding 550 pounds and trap tear values exceeding 140 pounds, Armor 7.0 out-muscles TenCate Gemini™, TenCate Millenia® and TenCate Advance Ultra®. Woven with military grade filament Kevlar, Armor 7.0 provides greater resistance to rips, tears and punctures while delivering longer garment durability.

Protection Plus

Not only is Armor 7.0 the strongest, lightest, and most durable aramid outer shell, Armor is also protected with our patented Teflon F-PPE finish. Teflon F-PPE is the world's most effective, most durable water repellent fabric finish.

Wear It Proudly

When the call went out to provide "The World's Bravest" with a lighter weight and higher performance outer shell product, DuPont and Safety Components leveraged the best in American fiber and fabric technology to create Armor 7.0.

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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. We are the only company in our industry with global certification capability. Throughout our 85 year history, Safety Components has developed a reputation for product quality, product innovation, product diversity and on-time delivery.

Armor 7.0 is a trademark of Safety Components, Inc.

TenCate is a trademark of Royal Ten Cate. Gemini, Millenia and Advance Ultra are trademarks or registered trademarks of TenCate Protective Fabrics.

Teflon F-PPE is a registered trademark of DuPont for its brand of fabric protector.

KEVLAR and NOMEX are DuPont registered trademarks.



A Proud
Supporter Of



ARMOR^{7.0}

Fiber Blend: **Filament Kevlar® with Spun Kevlar® / Nomex® Blend**

Weight: **7.0 oz/sqyd**

Weave: **Comfort-Twill**

Width: **60 Inches usable**

Thickness **0.017 Inch**

Finish: **Teflon F-PPE**

Color: **Gold**

- *Military Blend*
- *Denim Comfort*
- *Lighter Weight*
- *Easy Working*
- *Built Tough*
- *Protection Plus*
- *Wear It Proudly*

	Initial	After 5 Launderings	NFPA 1971-2007 Requirements
Flame Resistance			
ASTM D 6413			
Char Length in Inch (Warp x Filling)	0.5 x 0.5	0.5 x 0.5	4.0 Max
After Flame in Second (Warp x Filling)	0.0 x 0.0	0.0 x 0.0	2.0 Max
Heat/Thermal Resistance			
NFPA 1971-2007			
% of Shrinkage - 5mn at 500°F (Warp x Filling)	0.5 x 0.0	0.1 x 0.0	10.0 Max
Tear Resistance			
ASTM D 5587			
Tear Strength in lbf (Warp x Filling)	95 x 75	90 x 72	22.0 Min
Cleaning Shrinkage Resistance			
AATCC 135			
% of Shrinkage (Warp x Filling)	N/A	2.0 x 0.0	5.0 Max
Water Absorption Resistance			
AATCC 42			
% of Water Absorption	0.4	0.8	30.0 Max
Breaking Strength			
ASTM D 5034			
Breaking Strength in lbf (Warp x Filling)	630 x 600	620 x 590	140.0 Min

Safety Components is registered TS 16949, ISO 9001 and ISO 14001

Information is presented in good faith and believed to be accurate. SCI makes no recommendation or representation and neither expresses nor implies a warranty as to the completeness and accuracy of data, or the use to which the information is put. Many hazards exist and users of protective materials must satisfy themselves that their usage and practices are safe.



The Technology Leader in Flame Retardant Protection

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