



# FUSION™

## TAKING TURNOUT GEAR TO A HIGHER LEVEL

A powerful, almost invincible alloy that combines three revolutionary firefighting technologies: solution dyed DuPont™ Nomex®, perfectly blended with solution dyed DuPont™ Kevlar®, encapsulated with a miracle layer of our patented Teflon® F-PPE. These three elements are combined into an innovative low profile ripstop weave to deliver excellent thermal protection, unsurpassed performance in color longevity, with excellent durability and water repellency.



“ 70%

of the Top 10

Metro Cities specify

Safety Components

protective fabrics. ”



**SAFETY COMPONENTS**

PROVEN PROTECTION. PROVEN PERFORMANCE. PROVEN DURABILITY.



# FUSION™

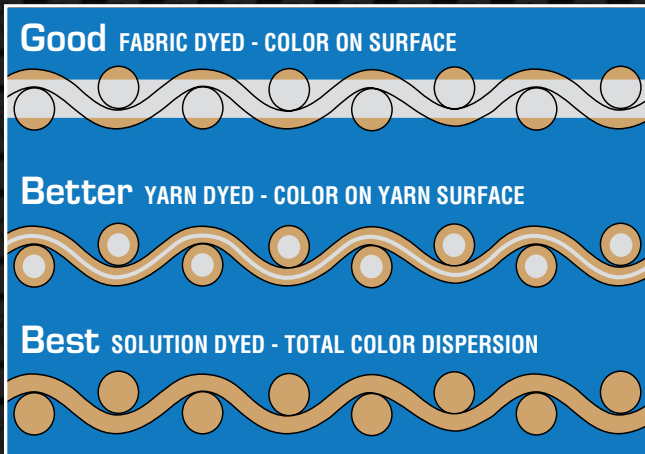
**FIBER BLEND:** Gold and Brass  
60% DuPont™ Kevlar®  
40% DuPont™ Nomex®  
Bronze and Black  
50% DuPont™ Kevlar®  
50% DuPont™ Nomex®

**WEIGHT:** 7.0 oz. (sq. yd.)

**WEAVE:** Low Profile Ripstop

**COLOR:** Gold, Brass, Bronze and Black

**FINISH:** DuPont™ Teflon® F-PPE



## Solution Dyed Fiber Technology

Your outer shell should be tough and durable, as well as thermally protective and light weight. It should also look professional. That's why we engineered the durability of Nomex with the superior strength of Kevlar, and worked with our partners at DuPont to insert the color into the fiber. This innovative solution dye technology offers long lasting, consistent color and outstanding strength performance against damaging ultraviolet rays and radiant heat. Solution dyed fibers have color inserted throughout the fiber bundle in order to maintain the fiber strength. The traditional fabric dyeing technology puts color on the fabric's outer layers using heat and pressure which damages the fibers and weakens the fabric. Fusion is your assurance that your turnout gear will remain service worthy for years to come.

## Low Profile Ripstop Performance

We produce Fusion with our aerospace engineered low profile ripstop weave which provides added puncture resistance and garment durability.

Because other outer shells like Advance use traditional fabric damaging dyeing technologies, they compensate for the loss of strength by incorporating high raised triple yarn ripstop weave.

## Look Professional Year After Year

Our solution dyed technology is expertly matched and has the same color on every master fiber batch. If properly stored and maintained, your department will look the same year after year.

## Teflon® F-PPE

Our patented Teflon F-PPE finish delivers the world's best durable water repellent finish for drier, lighter, more durable gear. Water weighs 8 pounds per gallon and can add significantly to an already stressful workload. Drier gear means reduced water absorption, lighter gear and faster drying times for added comfort. It also means drier gear for your second and third run of the day. Lower your workload and put more energy toward fighting the fire with less stress.



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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.

Fusion is a trademark of Safety Components, Inc.

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

KEVLAR and NOMEX are DuPont registered trademarks.

DuPont™ **Nomex®** | DuPont™ **Kevlar®**

A Proud  
Supporter Of



 **SAFETY COMPONENTS**

an  company  
open the future™



Fiber Blend: **Kevlar®/Nomex® Blend**  
 Weight: **7.2 oz/sqyd**  
 Weave: **Low Profile Ripstop**  
 Width: **60 Inches usable**  
 Thickness: **0.016 Inch**  
 Finish: **Teflon F-PPE**  
 Color: **Gold / Black / Brass / Bronze**

	Initial	After 5 Launderings	NFPA 1971-2007 Requirements
<b>Flame Resistance</b>			
ASTM D 6413			
Char Length in Inch (Warp x Filling)	<b>1.3 x 1.3</b>	<b>1.2 x 1.1</b>	4.0 Max
After Flame in Second (Warp x Filling)	<b>0.0 x 0.0</b>	<b>0.0 x 0.0</b>	2.0 Max
<b>Heat/Thermal Resistance</b>			
NFPA 1971-2007			
% of Shrinkage - 5mn at 500°F (Warp x Filling)	<b>0.5 x 0.0</b>	<b>0.2 x 0.0</b>	10.0 Max
<b>Tear Resistance - Trapezoid Method</b>			
ASTM D 5587			
Tear Strength in lbf (Warp x Filling)	<b>40 x 35</b>	<b>36 x 30</b>	22.0 Min
<b>Cleaning Shrinkage Resistance</b>			
AATCC 135			
% of Shrinkage (Warp x Weft)	<b>N/A</b>	<b>4.0 x 0.0</b>	5.0 Max
<b>Spray Rating</b>			
AATCC 22			
AATCC SCALE	<b>100 (ISO 5)</b>	<b>100 (ISO 5)</b>	90 (ISO 4) Mini
<b>Water Absorption Resistance</b>			
NFPA 1971-2000 / 6-26			
% of Absorption	<b>0.8</b>	<b>0.8</b>	30.0 Max
<b>Breaking Strength</b>			
ASTM D 5034			
Breaking Strength in lbf (Warp x Filling)	<b>330 x 300</b>	<b>295 x 280</b>	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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