

**Reinforcement  
Fabric**

**STEDSHIELD<sup>FR</sup>**  
by **Stedfast**

## Reinforced Kevlar<sup>®</sup> providing outstanding abrasion and flexibility

Stedshield<sup>®</sup> FR Hypalon<sup>®</sup> coated Kevlar<sup>®</sup> fabric specifically engineered for reinforcement areas of turn out gear.

### Product Benefits:

- Meets and exceeds  
NFPA 1971:2018  
ASNZ 4967:2009  
EN469, EN15614
- Exceptional abrasion resistance
- Flexible
- Flame, water and chemical resistant
- Tear resistance
- Thermal protection
- Resistant to low temperature

**Recommended end  
use applications:  
High performance  
reinforcement for  
knees, cuffs and elbows**

Available in:  
**Black, Grey and Gold**



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Specification		Hypalon® coated Kevlar®
	NFPA 1971-2018 Requirements	Stedshield FR®
<b>Weight</b> ASTM D-3776		18.9 opsy
<b>Breaking Strength</b> ASTM D-5034	W: 250 lbs minimum F: 200 lbs minimum	W: 360 lbs F: 280 lbs
<b>Tearing Strength</b> ASTM D-5587	W: 15 lbs minimum F: 15 lbs minimum	W: 25 lbs F: 25 lbs
<b>Flame Resistance</b> ASTM 6413	After flame: 2 sec maximum Char length: 4 inch maximum no drip, no melt	<b>After flame</b> Initial W: 0.5 sec. F: 0.3 sec. ----- 5W W: 0.6 sec. F: 0.03 sec.  <b>Char length</b> Initial W: 0.17 in. F: 0.16 in. ----- 5W W: 0.12 in. F: 0.09 in.
<b>Resistance to Abrasion</b> ASTM D- 3884		3000 cycles minimum
<b>Thermal Shrinkage</b> NFPA 1971-2018	10% maximum	Initial W: 0.09% F: 0.06% 5W W: 0.03 % F: 0.09%
	EN469/EN15614 Requirements	Stedshield FR®
<b>Weight</b>	N/A	640g/m <sup>2</sup>
<b>Flame Spread</b> EN ISO 15025:2003-02 Procedure A	No afterglow No occurrence of debris No formation of hole Mean afterflame <2secs	No afterglow No occurrence of debris No formation of hole Afterflame = 0 secs
<b>Heat Resistance</b> EN ISO 17493:2000 180°C for 5 mins After 5 wash-dry cycles	Materials shall not ignite or melt Shrinkage % < 5	No melt, drip, separation or ignition Shrinkage % L= 0.1 W= 0.2



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