



Durable reinforcement fabric engineered for high-abrasion areas of turnout gear.

Stedshield® FR – Durable para-aramid substrate provides outstanding abrasion, flexibility and durability.

PRODUCT BENEFITS:

- Exceptional abrasion resistance
- Flame, water and chemical resistant
- Flexible and superior tear resistance
- Excellent thermal protection
- Resistant to low temperatures
- Meets and exceeds

NFPA 1971:2018, AS/NZS 4967:2009
EN469, EN15614

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

Available in:
Black, Grey and Gold





STEDSHIELD^{FR}
by Stedfast

Specification

	NFPA 1971-2018 Requirements	Stedshield® FR
Weight ASTM D-3776		18.9 opsy
Breaking Strength ASTM D-5034	W: 250 lbs minimum F: 200 lbs minimum	W: 360 lbs F: 280 lbs
Tearing Strength ASTM D-5587	W: 15 lbs minimum F: 15 lbs minimum	W: 25 lbs F: 25 lbs
Flame Resistance ASTM 6413	Afterflame: 2 sec maximum Char length: 4 inch maximum no drip, no melt	Afterflame Initial W: 0.5 sec. F: 0.3 sec. 5W W: 0.6 sec. F: 0.03 sec. Char length Initial W: 0.17 in. F: 0.16 in. 5W W: 0.12 in. F: 0.09 in.
Resistance to Abrasion ASTM D- 3884		3000 cycles minimum
Thermal Shrinkage NFPA 1971-2018	10% maximum	Initial W: 0.09% F: 0.06% 5W W: 0.03 % F: 0.09%
	EN469/EN15614 Requirements	Stedshield® FR
Weight		18.9 opsy
Flame Spread EN ISO 15025:2003-02 Procedure A	No afterglow No occurrence of debris No formation of hole Mean afterflame < 2 secs	No afterglow No occurrence of debris No formation of hole Afterflame = 0 secs
Heat Resistance 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