

STEDSHIELD® FR MICRO PERFORATED

STEDSHIELD® ^{FR}
by Stedfast

Stedshield® FR micro perforated, is **ENGINEERED** so the size of its laser cut pores is only in the micron range, which makes the coating permeable to air, water and vapor at the same time, without substantially affecting the original performances.

**PATENT
PENDING**

Comfort

*In order to reduce the heat stress
Stedshield® FR micro perforated is:*

AIR PERMEABLE

ASTM D737
10 ft³/min/ft²

HEAT DISSIPATION

THL 275

Protection

*In order to offer a high level of protection
Stedshield® FR micro perforated offers:*

VAPOR RELEASE

The micropores are allowing vapor to be released hence protecting the body from steam burn injuries.

FLAME RESISTANCE

Outstanding flame resistance due to the 100% Para-aramid coated fabric.

THERMAL PROTECTION

Outstanding thermal resistance due to the 100% Para-aramid coated fabric.

Durability

Stedshield® FR micro perforated is specifically engineered for reinforcement areas of turn out gear requiring high mechanical performances, such as:

STRENGTH

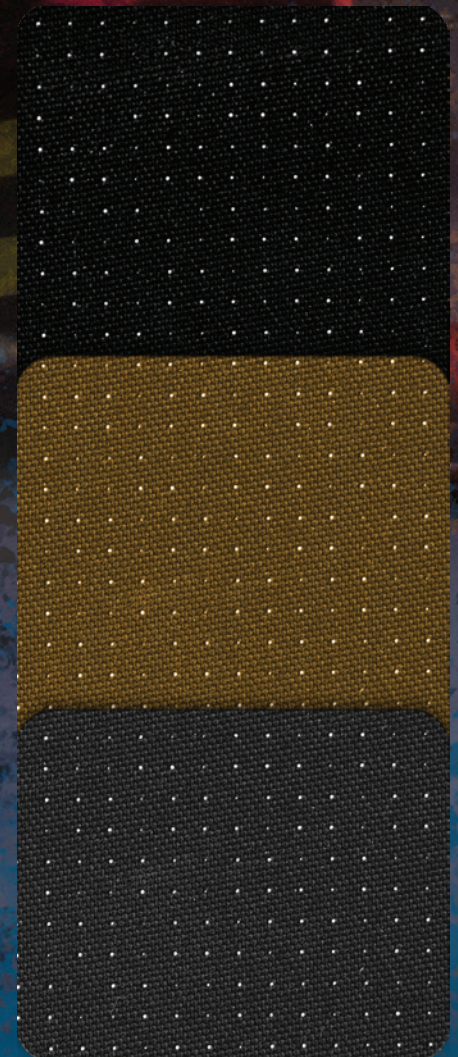
The 100% Para-aramid fabric offers high tear and break resistance.

ABRASION RESISTANCE

The synthetic rubber coating offers abrasion resistance, proven over the years.

FLEXIBILITY

The fabric and coating remain flexible to both hot and cold climates.



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Reinforcement Fabric

SPECIFICATION

Specialty Formulated Synthetic Rubber coated Para-aramid

	NFPA 1971-2018 Requirements	Stedshield® FR
Weight ASTM D-3776		18.9 opsy 640 g/m ²
Air Permeability ASTM D737-18		10 ft ³ /min/ft ²
Total Heat Loss ASTM 1868-17 part C		275 w/m ²
Flame Resistance ASTM 6413	After flame: 2 sec maximum Char length: 4 inch maximum no drip, no melt	After flame Initial W: 0.9 sec. F: 0.6 sec. 5W W: 1.1 sec. F: 1.0 sec. Char length Initial W: 0.08 in. F: 0.04 in. 5W W: 0.08 in. F: 0.04 in.
Resistance to Abrasion ASTM D- 3884		3000 cycles minimum
Tearing Strength ASTM D-5587		W : 15 lbs F : 15 lbs
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
Flame Spread EN ISO 15025:2003-02 Procedure A	No afterglow No occurrence of debris No formation of hole Mean After flame < 2 secs	No afterglow No occurrence of debris No formation of hole Mean After flame = 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

Note: These measurements cannot be used for acceptance of commercial shipments.

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