



FR Denim 120™

Springfield introduces inherently FR denim fabric.

Springfield FR Denim 120™ provides electric arc protection in a comfortable denim fabric that wears like your favorite jeans. It has the pre-washed look and feel of traditional denim. This is a denim that doesn't require "breaking in." In fact, the color can be lightened from traditional indigo-dyed denim to a stone-washed finish, depending on your preference.

In chemically treated denim, FR protection can wear away over time and may lose FR properties completely when laundered with bleach or other chemicals. Unlike denim fabric that has been chemically treated, the flame resistant properties inherent in Springfield FR Denim 120 will never wear or wash out. Plus, this tough denim will keep you cool and comfortable.



Introducing FR denim protective fabric brought to you by Springfield LLC, America's fastest growing FR fabric manufacturer.

For shirts, pants and coveralls.

Inherent FR properties:

- *Not a chemical finish. FR protection will never wear out or wash out.*
- *NFPA 70E HRC 2 Compliant. ASTM F 1506 Certified.*

Comfort & Durability:

- *Pre-washed look and feel of traditional, indigo-dyed, durable cotton denim. Minimal shrinkage after multiple washings.*
- *Good tensile and tear strength after 100 IL cycles.*



Made in America
by Springfield LLC

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Typical Physical Properties		Springfield Specifications	Average Performance Values	NFPA 1975 Requirements	ASTM F 1506 NFPA 70E Requirements
Width (inches)	Cuttable	66	66.75	-	-
Weight (oz/yd ²)	ASTM D 3776	12.0±5%	12.5	-	-
Yarns per inch (warp x fill)	Visual	65 x 57 min	65 x 58	-	-
Tensile Strength (lbs, warp x fill)	ASTM D 5034	50 x 50 min	145 x 117	-	50 x 50 min
Tear Strength (lbs, warp x fill)	ASTM D 1424	5.0 x 5.0 min	11.3 x 9.6	-	5.0 x 5.0 min
Dimensional Stability (% warp x fill)	AATCC 135				
After 5 laundry cycles 120°F		3.0 x 3.0 max	+1.7 x 1.6	-	3.0 x 3.0 max
Flame Resistance (warp x fill)	ASTM D 6413				
After Flame (seconds)- Initial		2.0 x 2.0 max	0.0 x 0.0	2.0 x 2.0 max	2.0 x 2.0 max
After 25 laundry cycles 120°F		2.0 x 2.0 max	0.0 x 0.0	-	2.0 x 2.0 max
After 100 laundry cycles 120°F		2.0 x 2.0 max	0.0 x 0.0	2.0 x 2.0 max	-
Char Length (inches)- Initial		6.0 x 6.0 max	2.9 x 2.4	6.0 x 6.0 max	6.0 x 6.0 max
After 25 laundry cycles 120°F		6.0 x 6.0 max	3.6 x 3.4	-	6.0 x 6.0 max
After 100 laundry cycles 120°F		6.0 x 6.0 max	3.0 X 3.1	6.0 x 6.0 max	-
Melt or Drip		None	None	None	None
Thermal Shrinkage (% warp x fill @ 500°F)	NFPA 1975				
Initial		10 x 10 max	0.4 x 0.6	10 x 10 max	-
After 25 laundry cycles 120°F		10 x 10 max	0.0 x 2.3	10 x 10 max	-
Arc Rating (cal/cm ²)	ASTM F 1959				
EBT after 3 laundry cycles 120°F		Level 2: 8.0 – 24.9	14.2	-	Level 2: 8.0 – 24.9
Colorfastness To Laundering (rating*)	AATCC 61 IIA- 1 cycle				
		3.0 min	4.0	-	3.0 min.
Seam Slippage @ 50 lbf	ASTM D 1683/ASTM D 434	0.25" max	0"	-	0.25" max

*Ratings: 5 = Best, 3 = Acceptable, 1 = Poor

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Performance terms and corresponding testing results refer to typical performance in specified tests and should not be construed to imply behavior of FR performance under other conditions, or to substitute for testing that you may need to conduct. Textile resistance to flame is only one aspect of a product's ability to meet or exceed a safety standard for clothing. It is the apparel manufacturer's responsibility to determine the suitability of our product for a particular purpose. Springfield makes no warranties and assumes no liability in any connection with the use of this information.

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FR fabric manufacturer*

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