



# FLAME-OUT™ SP

FLAME RESISTANT, SPUN PARA-ARAMID SEWING THREAD



SHORT-TERM **HEAT RESISTANCE** WHEN SECONDS CAN MAKE THE DIFFERENCE.

MATTRESS | PROTECTIVE APPAREL | SPECIALTY INDUSTRIAL

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A&E's Flame-Out™ SP spun para-aramid sewing thread is engineered to provide short-term heat resistance and is performance lubricated to optimize sewing efficiency. Primarily utilized in mattress tape-edging and protective garments, this flame-resistant thread was created as a compliment to the FR barrier system. Non-melting, Flame-Out™ SP displays excellent seam integrity and cut protection, while maintaining superior strength over meta-aramids and other FR products. Flame-Out™ SP is recommended for end use protective and mattress products seeking UL certification. For a comprehensive list of approved industry standards, see our technical product information.

## EXCELLENT RESISTANCE TO SHORT-TERM HEAT EXPOSURE

Engineered to withstand temperatures up to 840°F (449°C), this thread provides superior short-term heat resistance.

## SUPERIOR STRENGTH

Delivers superior strength over traditional, staple spun, meta-aramid threads, allowing for fewer, costly thread breaks and seam failures.

## PERFORMANCE LUBRICATION

Manufactured with the correct amount of lube with little to no finish build up, this thread ensures an ideal sewing performance, aiding in maximum efficiency.

**MATTRESS • FIREFIGHTER TURNOUT GEAR • PROTECTIVE APPAREL • SPECIALTY UNIFORMS  
• AEROSPACE • FILTRATION • FOOTWEAR • WORKWEAR**



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## PRODUCT INFORMATION\*

Application	Size		Strength cN	Recommended Needle Size
	Tex	Ticket		
Medium Weight	50	60	4,697	110/18
	60	50	4,510	110/18

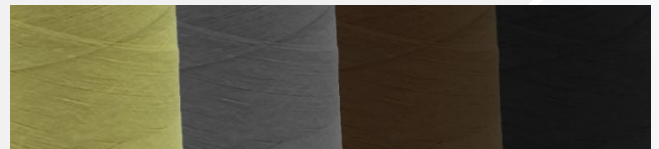
\*Physical characteristics provided are for comparative purposes only. Final determination of suitability is the sole responsibility of the user. All physical data shown is based on current averages and should not be used as minimum requirements.

## META-ARAMID AND PARA-ARAMID UL CERTIFICATIONS\*



Standard	Title
ASTM F1506	Standard performance specification for flame resistant and arc rated protective clothing worn by workers exposed to flames and electric arcs.
CAN/CGSB 155.20	Standard on workwear for protection against hydrocarbon flash fire and optionally steam and hot fluids.
CAN/CGSB 155.22	Standard on workwear for forest with corrigendum no. 1.
NFPA 1951	Standard on protective ensembles for technical rescue incidents.
NFPA 1971	Standard on protective ensembles for structural fire fighting and proximity fire fighting.
NFPA 1975	Standard on emergency services work clothing elements.
NFPA 1977	Standard on protective clothing and equipment for wildland fire fighting.
NFPA 2112	Standard on flame-resistant clothing for protection of industrial personnel against short-duration thermal exposures from fire.
EN ISO 11611	Protective clothing for use in welding and allied processes.
EN ISO 11612:2015	Protective clothing - clothing to protect against heat and flame.
EN ISO 15025:2016	Protective clothing - protection against flame.
EN 469:2020	Protective clothing for firefighters - performance requirements for protective clothing for firefighting activities.

\*Inquire on product designed to pass flammability testing per the following standards: AA 55217B (Berry Compliant Availability), EN149-1, EN469, EN470, EN61340, EN ISO 14116, and NFPA 70E.



## WHY CHOOSE A&E?

**QUALITY THREAD PRODUCTS SINCE 1891** — A&E is the world's foremost manufacturer and distributor of premium quality industrial and consumer sewing thread, embroidery thread and technical textiles. We provide our customers with the finest products and services, at the highest quality, delivered globally. Our steadfast commitment to superior quality and customer service make A&E the preferred thread supplier. Learn more on A&E's corporate social responsibility and environmental sustainability initiatives, comprehensive product offerings, and global locations at [WWW.AMEFIRD.COM](http://WWW.AMEFIRD.COM).

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