



Coats Firefly

FLAME-RETARDANT
WITH 100% SPUN
META ARAMID

Product Information

Coats Firefly is made with spun 100% meta-aramid, offering outstanding protection against heat and flame up to 371°C. Fire retardant protective garments require the highest level of security and durability to protect fire fighters, industrial workers and military combat personnel. Coats Firefly is a flame retardant sewing thread made from 100% spun meta aramid fibre using a vertically integrated aramid manufacturing system and is uniquely engineered to provide exceptional flame / heat and electric arc resistance. Coats Firefly is used in a variety of protective wear applications such as fire fighters clothing, work wear uniforms and army combat suits, and is certified to meet all safety regulatory standards and military specifications.



Main Uses:

- Flame retardant protective clothing
- Heat and flame protective workwear
- Industrial gloves
- Safety jackets
- Filtration
- Heat insulation

Why choose Firefly?

- Made from 100% meta-aramid fibre with a high melting point of 371°C.
- Exceptional flame and heat resistance; does not melt or drip up to the melting point.
- Unique spinning quality with 5 times lower fault levels and 100% traceability.
- Special dyes used for good wash fastness and minimal lot to lot colour variation.
- Flame resistance and colour survive multiple cycles of laundering and dry cleaning.
- Unique lubricated finish for excellent sewability and seam integrity.
- Meets Coats restricted substance list.

Approved by Underwriters Laboratory and other accredited organizations for all safety standards:

- Fire Fighting regulations NFPA 1971, 1975, 1977 and EN469.
- Industrial Personnel protection NFPA 2112, EN ISO 14116, EN ISO 11612 (industrial heat and flame) and EN ISO 11611 (welding).
- Electrical Arc Resistance NFPA 70E, EN470, EN149-1, EN61340.
- US Military spec AA 55217A Type I.

Technical Services

Our team of experts deliver innovative solutions globally.





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100% spun meta-aramid thread range for American NFPA and military AA55217A specs

Tex	Ticket	Strength cN	Elongation % Maximum	Needle Size Metric
24	120	590	24	60 - 80
27	110	735	26	75 - 90
40	70	930	28	80 - 90
60	50	1570	28	90 - 100
80	35	2060	28	110 - 130
90	30	2940	28	120 - 140

100% spun meta-aramid thread range for European EN specs

Tex	Ticket	Strength cN	Elongation % Min - Max	Needle Size Metric
30	100	1000	15 - 25	80 - 90
40	70	1500	17 - 27	90 - 110
70	40	2300	17 - 27	100 - 120

Thermal Properties:

- Excellent heat resistance up to 371°C
- Does not melt or drip
- Self-extinguishes on removal of flame

Chemical Properties:

- Excellent resistance to oils and petro chemicals
- Fair resistance to bleach
- High abrasion resistance



Since conditions and applications vary considerably in the use of a product, the customer and/or user should assure herself or himself that the product meets end customer requirements and is suitable for the intended end use. Coats accepts no liability for unsuitable or improper use or application of products.

Information provided above is based on current averages and should be taken only as indicative. Coats accepts no liability for the preciseness and correctness of the information provided.

Product information sheets are updated from time to time, please be sure you are referring to the most recent publication. Coats supports customers with advice on individual applications on request; if you have any questions or concerns, please contact us.

