

Coats® Firefly™

Coats Firefly is made with spun 100% meta-aramid, offering outstanding protection against heat and flame up to 371°C. Fire resistant 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 resistant 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.

COATS
firefly



**FLAME-RESISTANT
WITH 100% SPUN
META ARAMID**

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 consistency throughout multiple cycles of laundering and dry cleaning
- Unique lubricated finish for excellent sewability and seam integrity
- Meets Coats restricted substance list

MAIN USES

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

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, EN ISO 11611, EN61340-4-3, ASTM F1959, EN 61482-1-2.
- US Military spec A-A-55217 T1.
- EN ISO 15025, EN ISO 3146, EN ISO 13935, EN 469.



Coats Firefly

PRODUCT RANGE

100% spun meta-aramid thread range for American NFPA and military A-A-55217 TI specs

TEX	Ticket	Ply	Strength cN	Elongation % Min - Max	Needle Size Metric
24	120	2	618	15 - 25	60 - 80
27	110	2	655	20 - 32	75 - 90
40	75	3	1007	22 - 32	80 - 90
60	50	3	1511	20 - 35	90 - 100
80	40	4	2445	25 - 40	110 - 130
90	30	4	2267	27 - 38	120 - 140

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

TEX	Ticket	Ply	Strength cN	Elongation % Min - Max	Needle Size Metric
30	100	2	1000	14 - 28	80 - 90
40	70	3	1500	17 - 27	90 - 110
70	40	3	2300	17 - 27	100 - 120



THERMAL PROPERTIES

Excellent heat resistance up to 371°C

Does not melt or drip

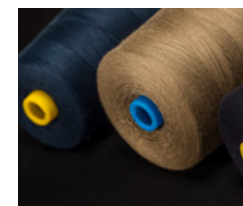
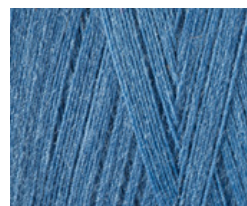
Self-extinguishes on removal of flame

CHEMICAL PROPERTIES

Damage	Protection
Oils and petro chemicals	Excellent resistance
Bleaching Fair resistance	Fair resistance
Abrasion resistance	High resistance
210	12

COLOUR FASTNESS PROPERTIES

	Test Method	Rating Stain	Change of Shade
Wash fastness 60°C	ISO 105 C10C	4 (Multifibre)	4
Water fastness:	ISO 105 E01	4 (Multifibre)	4
Rub fastness:	ISO 105 X12	4 (Cotton)	N/A
Colour fastness 70°	ISO 105-C06 D2S	5 (Multifibre)	4-5



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EXPERT REAL WORLD SUPPORT

The final cost of any product also includes hidden costs, fuelled by the methods and tools applied to it. Our experts know exactly how to reduce those costs, save time and increase productivity.



Seamworks

Install our Seamworks software to accurately calculate costs prior to production, putting an end to the risk of over or under ordering materials, and incurring unnecessary extra costs. The Seamworks tool is provided with installation, training and ongoing support included.



One to One Visits

There's no need to come to us, our experts will travel to your site. In person, online or via the phone, our trained consultants deal with the kind of issues any busy factory may face, providing a solution for today and a blueprint for future efficiency.



Training and Presentations

From product selection to stitch formation, the use of colour to solutions for common production issues, we take the learning gathered through years of hands on experience and present it in the form of high impact seminars, workshops and presentations.



Embroidery Service Centre

Our Embroidery Service Centre makes embroidering a design much easier, increasing productivity at the same time as enhancing the design itself. Email the design and any problematic issues to us and our technicians will email the improved design right back.

To drive your hidden costs down, talk to Coats. From product audits in pre-production to the latest technological bulletins, we'll provide support that achieves measurable results.

For more information, talk to your Coats representative today or visit [coats.com/firefly](https://www.coats.com/firefly)

Since conditions and applications vary considerably in the use of a product, the customer and/or user should assure themselves 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 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 for 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. © Copyright reserved 2022

OTHER PRODUCTS IN THE FIREFLY RANGE

To complement the Firefly range, we also have a selection of specialist Firefly threads. Each of these combines the superior properties of the Firefly product with additional benefits specific to the end use.

Product Name	Description
Firefly Fil	Continuous filament 100% meta-aramid sewing thread used in protective garments that require flame or heat protection.

Special use Firefly products are typically available across a select range of ticket sizes and technical information will in some cases vary from the above table.



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