

Coats® Firefly Fil™

Coats Firefly Fil is a continuous filament 100% meta-aramid sewing thread that is made using a vertically integrated aramid manufacturing system, and is uniquely engineered to provide exceptional flame, heat and electric arc resistance.

Coats Firefly Fil provides protective garments with the highest level of security as it offers outstanding heat resistance against heat up to flame temperatures of 371°C.

It is also certified to meet all safety regulatory standards including NFPA, EN and US military specification AA50195.

COATS
firefly fil



FLAME RETARDANT
CONTINUOUS FILAMENT
META-ARAMID

WHY CHOOSE FIREFLY FIL?

- Made from 100% meta-aramid filament with a high flame resistance up to 371°C
- Exceptional flame and heat resistance; does not melt or drip
- Fine threads with exceptional strength allowing low profile seams with high abrasion resistance
- 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

MAIN USES

- Fire fighters clothing
- Work wear uniforms
- Army combat suits
- Industrial gloves
- Protective footwear
- Filtration
- Heat insulation
- Safety jackets



Coats Firefly Fil

PRODUCT RANGE

TEX	Ticket	Ply	Strength cN	Elongation % Min - Max
21	140	1	2500	21 - 33
40	75	2	1800	26 - 36
60	50	3	2848	27 - 38
80	40	4	3802	17 - 35
80	40	3	6666	20 - 37
120	25	3	5320	24 - 34
135	25	6	6251	22 - 32



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

FASTNESS PROPERTIES

Washing at 95°C	ISO 105 C10D	Grade 4
Water Fastness	ISO 105 E01	Grade 4
Rub Fastness	ISO 105 X12	Grade 4
Hypochlorite Fastness	ISO 105 N01	Grade 4
Perspiration Fastness	ISO 105 E04	Grade 4



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Coats Firefly Fil

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

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	Staple spun meta-aramid sewing thread that can resist flame temperatures up to 371°C, making it an excellent choice for protective garments.

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.



FLAME-RETARDANT
WITH 100% SPUN
META ARAMID



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 2023

