



Coats® Firefly™ Hybrid

Firefly Hybrid is a high-performance flame-resistant sewing thread, engineered with sustainability in mind, made using up to 50% recycled meta-aramid fibres. This unique blend delivers the proven flame-resistant protection and durability of virgin fibers while incorporating recycled content to reduce environmental impact. Designed for demanding applications, Firefly Hybrid offers both reliability and responsibility, making it an ideal choice for protective apparel and industrial workwear.

COATS
*Firefly™
Hybrid*



FLAME-RESISTANT WITH
RECYCLED META-ARAMID

2025

Why choose Coats Firefly™ Hybrid?

- Made using up to 50% recycled meta-aramid fibres
- High melting point of 371°C, delivering exceptional flame and heat resistance
- Does not melt or drip up to the melting point
- Excellent sewability – no breakage or skipping
- Certified to Global Safety Standards: EN ISO 11612:2015, EN ISO 15025:2016 Met.A, EN ISO 13935-2:2014

Main Uses:

- Firefighter clothing
- Flame-resistant industrial workwear
- Arc-protective PPE
- Military uniforms



Coats® Firefly™ Hybrid

Product Range

Tex	Ticket	Ply	Strength cN	Elongation % Min - Max	Recommended Needle Size Metric
40	70	3	1200	15 - 30	100 - 110

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

Colour Fastness Properties

Black

Washing Fastness 60° C	ISO 105-C06:2010	Grade 4
Rub Fastness Dry & Wet	ISO 105-X12	Grade 4

Natural & White

Washing Fastness 60° C	ISO 105-C06:2010	Grade 4-5
Rub Fastness Dry & Wet	ISO 105-X12	Grade 4-5

Navy

Washing Fastness 60° C	ISO 105-C06:2010	Grade 4-5
Rub Fastness Dry & Wet	ISO 105-X12	Grade 4

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Expert Real World Support

The final cost of any thread 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.



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 thread 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.



Innovation Hub

Collaborate directly with expert R&D technologists at our Innovation Hub to create pioneering and tailored solutions for products ranging from Performance Materials to Apparel and Footwear. Equipped with state-of-the-art technology, we quickly turn ideas into prototype designs ready for manufacturing.

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

For more information, talk to your Coats representative today or visit www.coats.com

Other products

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.
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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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 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. Coats® is a registered trademark of J. & P. Coats, Limited. Firefly™ is trademark of J. & P. Coats, Limited. © Copyright reserved 2025.