



Coats® Flamemaster™

Coats Flamemaster is a polyester cospun thread that offers excellent permanent flame protection. Coats Flamemaster is EN15025 certified for use in EN469, EN11612, and EN14116 FR Garments.

Coats Flamemaster has the most extensive shade range of any flame retardant sewing thread. Its cospun technology results in superior sewing performance.

When flame retardant performance is mandated for industrial workers, military and public order personnel, then Coats Flamemaster is the recommended thread choice.

COATS
Flamemaster™



POLYESTER CORESPUN
FLAME RETARDANT

2026

Why choose Coats Flamemaster™?

- This quality thread has excellent sewing performance for a wide range of applications and materials
- NORMS include: EN ISO 15025, EN ISO 13935, EN ISO 14116, EN 469 standards
- OEKO-TEX® STANDARD 100, Product Class I

Main Uses:

- Flame retardant protective clothing
- Protective wear
- Military protective wear
- Protective footwear
- Workwear
- Industrial gloves

Product Range

Tex	Ticket	Strength cN	Elongation % Min - Max	Recommended Needle Size Metric
30	100	1490	17 - 26	75 - 90
40	70	1960	18 - 24	90 - 100
70	40	3040	18 - 25	100 - 120

Please note that testing was conducted using a fire-resistant aramid fabric. These results do not apply to non-fire-resistant fabrics, which may not meet the required performance criteria.



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Thermal Properties

The maximum operating temperature limit for Coats Flamemaster is around 200°C

Melting point is around 250 °C

Coats Flamemaster meets the limited flame spread requirements of ISO 15025 which are key requirements of seams for heat and flame protective clothing according to Euro Norms:

- No flaming to top or either side edge
- No hole formation
- No flaming or molten debris
- No seam opening
- Average afterflame time 2 seconds
- Average afterglow time 2 seconds

Chemical Properties

Mineral acids:	Resistant to most mineral acids
Alkalis:	Essentially unaffected by weak alkalis, but less resistant to stronger alkalis, especially at higher temperatures
Organic solvents:	Generally unaffected, but soluble in some phenolic compounds
Bleaching:	Unaffected
Insects / microorganisms (mildew, rot):	Unaffected
Laundering / dry cleaning:	Unaffected
Moisture regain:	0.4%

Fastness Properties

Wash fastness (95°C)	ISO 105 C04 (DIN 54 011)	Rating min. 4
Water Fastness	ISO 105 E01 (DIN 54 006)	Rating min. 4
Rub Fastness	ISO 105 X12 (DIN 54 021)	Rating min. 4
Hypochlorite Fastness	ISO 105 N01 (DIN 54 035)	Rating min. 4
Perspiration Fastness	ISO 105 E04 (DIN 54 020)	Rating min. 4

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

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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 accuracy 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. Flamemaster™ are trademarks of J. & P. Coats, Limited. © Copyright reserved 2026.