

COATS
flame master



FLAME-RESISTANT
POLYESTER
CORESPUN WITH
POLYESTER WRAP

Coats® Flame Master™

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

Coats Flame Master has the most extensive shade range of any flame resistant sewing thread. Its corespun technology results in superior sewing performance compared to any other flame resistant thread.

When flame resistant performance is mandated for firefighters, welders, industrial workers, military and public order personnel, then Coats Flame Master is the recommended thread choice.

WHY CHOOSE FLAME MASTER?

- This quality thread has excellent sewing performance for a wide range of applications and materials
- Norms include: EN ISO15025, EN ISO13935, EN ISO 11612, EN ISO 14116, EN 469 standards

MAIN USES

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

PRODUCT RANGE

Tex	Ticket	Strength cN	Elongation % Min - Max	Needle Size Metric
30	100	1490	17 - 22	75 - 90
40	70	1960	18 - 24	90 - 100
70	40	3040	18 - 25	100 - 120



Coats Flame Master

THERMAL PROPERTIES

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

Melting point is around 220°C

Coats Flame Master 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
Laundrying / 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

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

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 technical bulletins, we'll provide support that achieves measurable results.

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



FLAME-RESISTANT
POLYESTER
CORESPUN WITH
POLYESTER WRAP

