

COATS
epic protect



ANTI-MICROBIAL
POLYESTER
CORESPUN WITH
POLYESTER WRAP

Coats® Epic™ Protect

Coats Epic Protect sewing thread is treated with an innovative process to give the finished thread anti-microbial / anti-fungal properties. The anti-microbial process creates a “zone of inhibition” that prevents the growth of odour and stain causing bacteria and pathogens around sewn seams, where microbes like to harbour, leaving seam crevices clean and fresh.

WHY CHOOSE COATS EPIC PROTECT?

- Specially finished to deliver outstanding sewing performance in the most demanding applications with the added benefit of anti-microbial properties
- Fights mould and mildew
- Inhibits bacteria that causes odour
- Coats Epic Protect is stain resistant
- The high strength polyester filament core allows the use of finer thread sizes, giving better seam appearance without compromising seam strength
- Coats Protect threads tested against AATCC 100 Anti-Microbial Test, exhibited excellent Anti-Microbial Resistance at 96% post 75 washes.

- Meets Fungi Resistance Test - No growth of mould culture *Aspergillus Brasiliensis* (ATCC 9642), *Penicillium Pinophilum* (ATCC 11797), *Chaetomium Globosum* (ATCC 6205), *Gliocladium Virens* (ATCC 9645) and *Aureobasidium Pullulans* (ATCC 15233).
- Standard 100 by Oeko-Tex® Class I

MAIN USES:

- Medical light mattresses
- Medical supports
- Medical / hospital gowns
- Tents
- Backpacks
- Sports gloves
- Sports apparel
- Uniforms
- Workwear
- Military



Coats Epic Protect



PRODUCT RANGE

Art/Tkt	Ticket	Tex	Length	Average Strength cN	Elongation % Min - Max	Recommended Needle Size Metric
2A94180	180	18	5,000 M	780	17 - 22	65 - 75
2A93180	180	18	3,000 M	780	17 - 22	65 - 75
2A94120	120	24	5,000 M	1,190	17 - 22	75 - 90
2A93120	120	24	3,000 M	1,190	17 - 22	75 - 90
2A94100	100	30	5,000 M	1,490	17 - 22	75 - 90
2A93100	100	30	3,000 M	1,490	17 - 22	75 - 90
2A93080	080	40	3,000 M	1,780	18 - 24	90 - 110
2A93050	050	60	3,000 M	3,040	18 - 25	90 - 110
2A93040	040	80	3,000 M	3,940	18 - 25	100 - 120
2A93030	030	105	3,000 M	4,790	18 - 25	110 - 130
2A93025	025	120	3,000 M	6,080	18 - 25	120 - 140

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 60°C	ISO 105-C10C	Grade 4
Water fastness	ISO 105-E01	Grade 4
Rub fastness	ISO 105-X12	Grade 4
Hypochlorite fastness	ISO 105-N01	Grade 4
Dry cleaning fastness	ISO 105-D01	Grade 4
Perspiration fastness	ISO 105-E04	Grade 4
Artificial light fastness	ISO 105-B02	Grade 4

These fastness grades represent minimum performance levels and, in practice, the majority of shades will exceed these levels.



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



Coats Epic Protect



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.



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 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.



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.



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/epic-protect

OTHER PRODUCTS IN THE EPIC RANGE

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

Product Name	Description
Epic	High quality, polyester corespun that is precisely engineered to create durable, attractive seams on a wide range of fabrics across many applications
Epic AS	Range of threads designed for outdoor wear and engineered to provide excellent static and dynamic friction values which reduce leakage of 'down' through the needle hole.
Epic AWF	Free of perfluorinated compounds (PFCs), an environmentally friendly, anti-wicking thread for water-resistant outdoor wear and workwear.
Epic RD	Polyester corespun thread conforms to U.S. Legislation CFR1615 and BS EN 14878:2007 (Nightwear Safety Regulations) in children's nightwear.
Epic Metallic	Pick-and-mix colour range of metallised yarn and polyester thread to sew decorative stitching on denim.
Epic Multicolour	A pure polyester thread that is a part of the flagship Epic range of threads and gives each garment a truly unique finish.
Epic Rugged	High-tech thread which combines the strength, performance and superior properties of Epic with bleach-fastness for a thread that can withstand denim wash processes.
Epic SIF	Polyester covered corespun thread that is free from silicone and ideal for filtration needs within the automotive industry.
Epic Supermax	Ultimate sewing thread for smooth, premium-looking seams on fine tailoring and high quality garments.
Epic Verifi	Versatile quality polyester corespun sewing thread with an embedded security system.
Epic EcoVerde	100% recycled premium polyester corespun sewing thread that has been precisely engineered to create durable, attractive seams across a wide range of recycled fabrics and materials.

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

