

# Coats® Epic™ Eco-B

Coats Epic Eco-B is a recycled corespun polyester thread incorporating an additive from CiCLO® to reduce synthetic fibre accumulation in landfills and oceans. The technology creates biodegradable 'spots' in the polymer matrix, where naturally-occurring microbes in certain environments can break down the plastics just as they do with natural fibres.

**COATS**  
*epic Eco-B*



RECYCLED CORESPUN  
POLYESTER WITH  
CICLO ADDITIVE

## WHY CHOOSE EPIC ECO-B?

### Sustainable

- Utilises proprietary technology to reduce plastic waste in landfills and plastic pollution in our oceans
- ECO PASSPORT certified by OEKO- TEX
- Non-toxic to marine life

### Functional

- Easy to implement in the existing manufacturing
- Maintains integrity of fibres, no loss of durability or performance

### Sensible

- The CiCLO® fibres behave more like natural fibres when they end up in the environment
- The biodegradation process takes a long time and

access to moisture and an abundance of microbes. It will not happen during use or care

- Fibres and yarns are traceable- CiCLO® technology has an authentication program that requires all fibre producers to validate the presence of CiCLO® in every batch they manufacture
- STANDARD 100 by OEKO-TEX® CLASS I
- Less energy intensive to produce in comparison to virgin materials, which results in lower carbon emissions during production
- Delivers a similar level of performance as the virgin range, whilst offering sustainability benefits
- Global Recycled Standard (GRS) certified

## MAIN USES

- Fashion apparel
- Blouses and shirts
- Jackets and dress slacks
- Lingerie and swimsuits
- Uniforms and workwear
- Jeanswear
- Various leather articles



Powered by **CiCLO**  
FUNCTIONAL. ECOLOGICAL. SUSTAINABLE.

# Coats Epic Eco-B

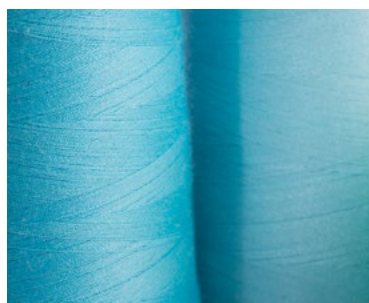


## PRODUCT RANGE

Article Ticket	Ticket	Tex	Length	Average Strength cN	Elongation % Min-Max	Recommended Needle Size Metric
BEE5120	120	24	5000m	1106	15 - 23	70 - 90
BEE5080	80	40	5000m	1805	15 - 23	75 - 90
BEE5050	50	60	5000m	2790	14 - 22	100 - 120
BEE5040	40	80	5000m	3756	14 - 22	100 - 120
BEE3030	30	105	3000m	4397	15 - 24	110 - 130

## 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
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 Eco-B



## 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.

## 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
<b>Epic</b>	High quality, polyester corespun that is precisely engineered to create durable, attractive seams on a wide range of fabrics across many applications
<b>Epic AS</b>	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.
<b>Epic AWF</b>	Free of perfluorinated compounds (PFCs), an environmentally friendly, anti-wicking thread for water-resistant outdoor wear and workwear.
<b>Epic RD</b>	Polyester corespun thread conforms to U.S. Legislation CFR1615 and BS EN 14878:2007 (Nightwear Safety Regulations) in children's nightwear.
<b>Epic Metallic</b>	Pick-and-mix colour range of metallised yarn and polyester thread to sew decorative stitching on denim.
<b>Epic Multicolour</b>	A pure polyester thread that is a part of the flagship Epic range of threads and gives each garment a truly unique finish.
<b>Epic Protect</b>	Coats Epic Protect sewing thread is treated with an innovative process to give the finished thread anti-microbial / anti-fungal properties.
<b>Epic Rugged</b>	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.
<b>Epic SIF</b>	Polyester covered corespun thread that is free from silicone and ideal for filtration needs within the automotive industry.
<b>Epic Supermax</b>	Ultimate sewing thread for smooth, premium-looking seams on fine tailoring and high quality garments.
<b>Epic Verifi</b>	Versatile quality polyester corespun sewing thread with an embedded security system.

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.



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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-eco-b](http://www.coats.com/epic-eco-b)

