



Coats® EcoVerde™ Epic™

Coats EcoVerde Epic is a 100% recycled premium polyester corespun with polyester wrap sewing thread that has been precisely engineered to create durable, attractive seams across a wide range of recycled fabrics and materials. From delicate silks and leisurewear to robust denims, Coats EcoVerde Epic ensures an excellent stitch formation and seam appearance – even under the most demanding production line conditions.

COATS EcoVerde™

Epic™



100% RECYCLED
POLYESTER CORESPUN
WITH POLYESTER WRAP

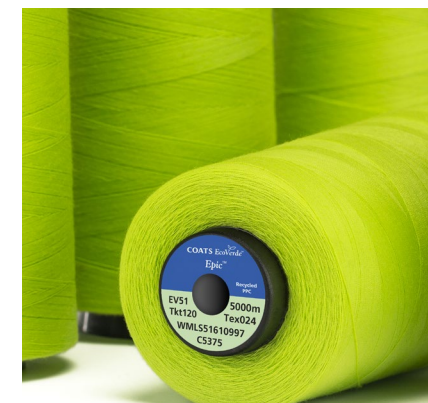
2024

Why choose Coats EcoVerde™ Epic™?

- Coats EcoVerde Epic is a stronger, more durable, precisely engineered sewing thread with lower repair rates, lower returns to manufacturer, lower irregulars, increased productivity and excellent colour fastness performance level
- Less energy intensive to produce in comparison to virgin materials, which results in lower carbon emissions during production
- Delivers same level of performance as the virgin equivalent range, whilst offering sustainability benefits
- World-class quality, greater abrasion resistance and perfect colour matching also explain why Coats EcoVerde Epic is the thread of choice worldwide
- OEKO-TEX® STANDARD 100, Product 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 for attractive seam appearance and perfect colour matching
- Broad category of garments and accessories that require create durable and attractive seams
- Uniforms and workwear where are needed strong, durable and pucker-free seams
- Jeanswear and casual twills requiring resistance to industrial laundry washing
- Lingerie women's swimwear in a wide range of colors





Product Range

Article Ticket	Ticket	Tex	Length	Average Strength cN	Elongation % Min - Max	Recommended Needle Size Metric
EV51180	180	18	5,000M	784	17 - 22	65 - 75
EV31180	180	18	3,000M	784	17 - 22	65 - 75
EV51150	150	21	5,000M	980	17 - 22	65 - 75
EV51120	120	24	5,000M	1,186	17 - 26	70 - 90
EV31120	120	24	3,000M	1,186	17 - 26	70 - 90
EV51100	100	30	5,000M	1,490	17 - 26	70 - 90
EV31100	100	30	3,000M	1,490	17 - 26	70 - 90
EV51080	080	40	5,000M	1,965	18 - 24	90 - 100
EV53080	080	40	3,000M	1,965	18 - 24	90 - 100
EV51050	050	60	5,000M	3,038	17 - 26	100 - 120
EV53050	050	60	3,000M	3,038	17 - 26	100 - 120
EV51040	040	80	5,000M	3,940	18 - 25	100 - 120
EV53040	040	80	3,000M	3,940	18 - 25	100 - 120
EV51030	030	105	5,000M	4,787	18 - 25	110 - 130
EV53030	030	105	3,000M	4,787	18 - 25	110 - 130
EV53025	025	120	3,000M	6,076	18 - 25	120 - 140
EV53020	020	135	3,000M	7,154	18 - 25	120 - 140
EV53012	012	210	3,000M	9,800	20 - 25	180 - 230

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

Washing Fastness 60°C	ISO 105-C10 C	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.





Sustainability at Coats



Energy

We reduce carbon emissions through more efficient use of energy and transitioning to renewable sources whenever they become available. This is our crucial contribution to combat climate change.



Materials

With Coats EcoVerde we are driving the material transition away from virgin oil-based sewing threads. And we are on target to achieve 60% sustainable materials by 2026.



Water

The colouration or dyeing process is where we use the most water in our operations. We take great care of water resource by reducing our water intensity and through the installation of water recycling facilities.



Waste

Through all our processes we ensure that we recover, re-use and recycle as much material as possible. Where residual waste product is unavoidable, the waste is processed responsibly and always with the smallest impact on the environment.



People

We have a responsibility to employees, their families, our communities and all the people in our wider supply chain who touch our business. Through policies, programmes and community events, we ensure that safety, wellbeing, fairness, equality, diversity and opportunity are always top of mind for everyone.

Other products in the range

To complement the Coats EcoVerde Epic range, we also have a selection of specialist Epic threads. Each of these have additional benefits specific to the end use.

Product Name	Description
Coats EcoVerde Epic AS	100% recycled premium polyester corespun with polyester wrap thread designed for outdoor wear and engineered to provide excellent static and dynamic friction values which reduce leakage of 'down' through the needle hole.
Coats EcoVerde Epic AWF	100% recycled premium polyester corespun with polyester wrap thread with free of perfluorinated compounds (PFCs), an environmentally friendly, anti-wicking thread for water resistant outdoor wear and workwear.
Coats EcoVerde Epic Rugged	100% recycled premium polyester corespun with polyester wrap 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.
Coats EcoVerde Epic Supermax	100% recycled premium polyester corespun with polyester wrap thread - An ultimate sewing thread for smooth, premium-looking seams on fine tailoring and high quality garments.
Coats EcoVerde Epic Multicolour	100% recycled premium polyester corespun with polyester wrap thread - A pure polyester thread that is a part of the flagship Epic range of threads and gives each garment a truly unique finish.

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.

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 www.coats.com



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. Coats EcoVerde™ and Epic™ are trademarks of J. & P. Coats, Limited. © Copyright reserved 2024.

NOVEMBER 2024

Coats® EcoVerde™ Dual Duty™

Coats EcoVerde Dual Duty is a premium quality corespun thread that combines a high tenacity 100% recycled polyester filament core with a Better Cotton Initiative (BCI) certified cotton cover. The filament core offers excellent strength and durability, while the long staple cotton wrap ensures excellent sewing performance and protects the core from needle heat.

COATS EcoVerde™

Dual Duty™



100% RECYCLED
POLYESTER CORESPUN
WITH COTTON WRAP

Why choose Coats EcoVerde™ Dual Duty™?

- Coats EcoVerde Dual Duty delivers excellent sewing performance in the most demanding applications
- The high tenacity polyester filament core allows the use of finer thread sizes improving seam appearance without compromising seam strength
- Excellent wash-down characteristics make Dual Duty ideal for denimwear and jeans
- Outstanding abrasion resistance for demanding jeans and workwear applications
- 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:

- Classic denimwear and jeans
- Heavy duty outdoor wear and cargo trousers
- For soft, natural feel seams on fine cotton fabrics and for premium lingerie
- High speed sewing operations for towels and home furnishings



Coats® EcoVerde™ Dual Duty™

Product Range

Article Ticket	Ticket	Tex	Length	Average Strength cN	Elongation % Min - Max	Recommended Needle Size Metric
EV25180	180	21	5,000 M	840	13 - 18	65 - 75
EV25120	120	24	5,000 M	1,039	18 - 22	75 - 90
EV25100	100	30	5,000 M	1,250	18 - 22	75 - 90
EV25075	75	40	5,000 M	1,862	18 - 24	90 - 100
EV25050	50	60	5,000 M	2,842	18 - 24	100 - 120
EV25036	36	80	5,000 M	3,528	18 - 24	110 - 130
EV25030	30	105	5,000 M	3,724	18 - 24	110 - 130
EV25025	25	120	5,000 M	5,390	20 - 26	120 - 140
EV34020	20	150	2,500 M	7,154	20 - 26	120 - 140



Chemical Properties

Mineral acids:	Polyester: is resistant to most mineral acids Cotton: disintegrates in hot dilute and cold concentrated acids
Alkalis:	Polyester: essentially unaffected by weak alkalis, but less resistant to stronger alkalis, especially at higher temperatures Cotton: swells in caustic, no appreciable strength loss
Organic solvents:	Polyester: generally unaffected, but soluble in some phenolic compounds Cotton: degraded by some solvents
Bleaching:	Polyester: unaffected Cotton: bleached by hypochlorite and peroxides
Insects / microorganisms (mildew, rot):	Polyester: unaffected Cotton: degrades but can be treated with special finishes
Laundering / dry cleaning:	Unaffected
Moisture regain:	Polyester: 0.4%, Cotton: 8%

Fastness Properties

Washing Fastness at 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

* Note: some Vat dyed PCC heavy shades (colour group: 47, 55) will not be able to achieve rub fastness standard. Only Grade 3; also reactive dyed PCC will not meet bleach and possibly light fastness standards. This is currently the case in Europe and shade cards should include a note to that effect



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Coats® EcoVerde™ Dual Duty™

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.



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 Dual Duty Range

To complement the Dual Duty range, we also have a selection of specialist Dual Duty threads. Each of these have additional benefits specific to the end use.

Product Name	Description
Coats EcoVerde Dual Duty Indigo	100% recycled - the eco-friendly response to natural indigo dyed sewing threads.
Coats EcoVerde Dual Duty Supercotton	100% recycled corespun thread that has been especially developed for post dyed cotton garments.
Coats EcoVerde Dual Duty AWF	100% recycled corespun thread with PFC free anti-wicking

Specialist Dual Duty 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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