



Coats EcoVerde™ Dual Duty™ NIR

Coats EcoVerde Dual Duty NIR (Near-Infrared) is a premium corespun thread engineered for strength, sustainability, and specialized concealment. Made with a high-tenacity 100% recycled polyester filament core and a Better Cotton Initiative (BCI) certified cotton wrap, it delivers outstanding durability and sewing performance while protecting the core from needle heat.

What sets Coats EcoVerde Dual Duty NIR apart is its innovative dyestuff technology that makes the thread undetectable under Near-Infrared (NIR) light, offering critical concealment in specialized applications such as military clothing.

COATS EcoVerde™

Dual Duty™
NIR



100% RECYCLED
POLYESTER CORESPUN
WITH COTTON WRAP

Why choose Coats EcoVerde™ Dual Duty™ NIR?

- Undetectable under infrared light
- Exceptional sewing performance, even in demanding applications
- High-tenacity polyester core enables finer thread sizes and improved seam appearance without compromising strength
- Sustainable construction with 100% recycled polyester core and BCI cotton wrap
- 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:

- Military Clothing









Coats EcoVerde™ Dual Duty™ NIR

Product Range

Article Ticket	Tex	Ticket	Ply	Strength cN	Elongation % Min - Max
EV25120	24	120	2	1,040	18 - 22
EV25075	40	75	2	1,860	18 - 24
EV25050	60	50	2	3,040	18 - 24
EV25036	80	36	2	3,530	18 - 24
EV25025	120	25	3	5,390	20 - 26
EV25030	105	30	2	3,720	18 - 24

Colour Range

					
485YT	970YT	053YS	207ZS	484YS	33NTY

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 (midlew, rot):	Polyester: unaffected Cotton: degrades but can be treated with special finishes
Laundeting / dry cleaning:	Unaffected
Moisture regain:	Polyester: 0.4% Cotton: 8%

Fastness Properties

Washing Fastness 60° C	ISO 105-C10 C	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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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 Dual Duty range, we also have a selection of finishes for Dual Duty threads. Each of these combines the superior properties of the Dual Duty product with additional benefits specific to the end use.

Product Name	Description
Coats EcoVerde Dual Duty	100% recycled polyester corespun with cotton wrap

Special use 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.

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



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 Dual Duty™ are trademarks of J. & P. Coats, Limited. © Copyright reserved 2025.