

Coats® Gral™ EcoVerde AS for Apparel

Coats Gral EcoVerde AS is a lubricated polyester thread made from 100% recycled high tenacity continuous filament polyester. Our AS range of sewing threads are designed to meet the needs of outdoor performance sportswear, woven outerwear and fashion jackets. In drier atmospheric conditions the lower dynamic friction values of Gral EcoVerde AS minimise the attraction of down towards the needle, helping to prevent down leakage through needle holes. The lower dynamic friction values of Gral EcoVerde AS also enhances the uniformity of the stitch formation giving you neat and well balanced seams.

COATS

*gral EcoVerde AS
for Apparel*



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FILAMENT POLYESTER

WHY CHOOSE GRAL ECOVERDE AS FOR APPAREL?

- Excellent dynamic friction values reduce leakage of "down" through the needle hole
- Provides solutions for oil-sensitive materials such as CO fabrics
- Gral EcoVerde AS delivers consistent loop and stitch formation providing neater, flatter seams.
- This high tenacity thread with its exceptional abrasion resistance allows this product to be used in a wide range of applications.
- 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
- STANDARD 100 by OEKO-TEX® CLASS I

MAIN USES:

- Outdoorwear
- Activewear
- Jackets



Coats Gral EcoVerde AS for Apparel

PRODUCT RANGE

Art/Tkt	Ticket	Tex	Length m	Average Strength cN	Elongation % Min - Max	Recommended Needle Size Metric
ESG5180	180	14	5,000	922	17 - 24	65 - 75
EV2S120	120	21	3,000	1420	16 - 26	75 - 90



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
Dry Cleaning Fastness	ISO 105 D01	Grade 4
Perspiration Fastness	ISO 105-E04	Grade 4



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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. © Copyright reserved 2023

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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.

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/gral-ecoverde-as-for-apparel



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