



Coats® Gral™ for Apparel

Coats Gral is a continuous filament polyester thread made from pre-stabilised high tenacity polyester and is the thread of choice for multiple end-uses.

The soft finish with superior low friction lubrication reduces the effects of needle heat and abrasion.

COATS
Gral™
for Apparel



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FILAMENT POLYESTER

2026

Why choose Coats Gral™ for Apparel?

- Coats Gral is ideal for neat, unobtrusive stitching. In the finer sizes used for blind stitching and hemming, Coats Gral is semi-transparent and blends into the fabric colour, reducing the frequency of thread changes.
- Coats Gral is an excellent sewing thread for a wide range of apparel applications and has very good abrasion resistance
- The soft finish with superior low friction lubrication reduces the effects of needle heat and abrasion
- High level of colour fastness even in demanding washing conditions
- Coats Gral exhibits excellent loop formation, consistent stitch formation and neat seam appearance
- OEKO-TEX® STANDARD 100, Product Class I

Main Uses:

- Blindstitching and hemming
- Preventing down and synthetic filling loss for quilting operations
- High speed multi-head quilting operations
- Serging on fine woven fabrics such as jacket linings





Product Range

Article Ticket	Ticket	Tex	Length	Average Strength cN	Elongation % Min - Max	Recommended Needle Size Metric
1345300	300	10	5,000 M	630	17 - 23	55 - 70
1345200	200	12	5,000 M	920	16 - 22	65 - 75
1345180	180	14	5,000 M	920	17 - 24	65 - 75
1345120	120	21	5,000 M	1,420	16 - 24	75 - 90
1345080	080	35	5,000 M	2,170	16 - 22	75 - 90

* Standard put-up length for fine sizes of Coats Gral is 5000m. For long length put-up 10.000m; use article code 1348 in place of 1345

* Some markets have alternative standard lengths; use 1322 for 3000m.

Thermal Properties

Melts at 250 - 260°C, softens at 220 - 240°C

Shrinkage less than 2.5% @ 150°C

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 by all common solvents 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°	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

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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

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Introducing Coats EcoVerde

COATS EcoVerde™

The first globally available 100% recycled line of GRS certified sewing threads. Coats EcoVerde delivers the same proven level of performance as the industry's leading non-recycled threads, but with a drastically reduced carbon footprint.

Ask Coats today about Coats EcoVerde Gral.
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. Gral™ is a trademark of J. & P. Coats, Limited. © Copyright reserved 2026.

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