

COATS
gral ast



LUBRICATED
POLYESTER

Coats Gral AST Anti-static

Coats Gral AST is a lubricated polyester thread made from pre-stabilised high tenacity continuous filament polyester in combination with a conductive material, designed for use in applications where electrostatic charge is a problem (e.g. server rooms or places where flammable materials are stored or used).

WHY CHOOSE GRAL AST?

- Specially designed to prevent static build-up in garments, footwear, etc.
- Available in a range of sizes for a broad range of products
- Excellent sewability and strength

MAIN USES:

- Garments and footwear for electronic assembly line staff
- Garments and footwear for places where flammable liquids and gases are stored

PRODUCT RANGE

Article Ticket	Ticket	Tex	Weight/Length	Average Strength cN	Elongation % Min - Max	Recommended Needle Size Metric
S2A2020	20	135	830g	7,030	18 - 25	120 - 140
3450030	30	80	600g	5,700	15 - 26	110 - 130
S2A4080	80	30	4000m	1,800	15 - 26	80 - 100
SR30W34	34	90	600g	6,080	19 - 25	110 - 130



Coats Gral AST Anti-static

THERMAL PROPERTIES

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

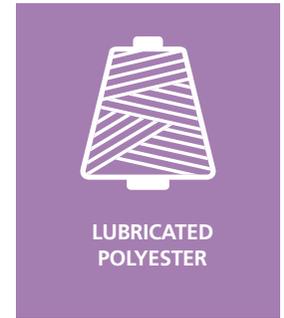
Shrinkage less than 2.5% @ 150°C

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, but soluble in some phenolic compounds
Bleaching:	Unaffected
Insects / microorganisms (mildew, rot):	Unaffected
Moisture regain:	0.4%

FASTNESS PROPERTIES

Wash fastness:	ISO 105 C10 C	Grade 3 - 4
Water fastness:	ISO 105 E01	Grade 3 - 4
Rub fastness:	ISO 105 X12	Grade 3 - 4



Coats Gral AST Anti-static

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.

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-ast

OTHER PRODUCTS IN THE GRAL RANGE

To complement the Gral range, we also have a selection of specialist Gral threads. Each of these combines the superior properties of the Gral product with additional benefits specific to the end use.

Product Name	Description
Gral (Coarse Sizes)	High tenacity sewing thread with excellent abrasion resistance, ideal for sewing leather footwear.
Gral AS	Engineered for use as needle thread to prevent down migration during the sewing and lifetime of padded down jackets.
Gral for Apparel	Lubricated continuous filament polyester for neat and attractive stitching.
Gral AWF (Apparel Sizes)	Free of perfluorinated compounds (PFCs), best anti-wick thread choice for no-compromise, premium water-resistant outdoor wear and rainwear.
Gral AWF (Coarse Sizes)	Free of perfluorinated compounds (PFCs), best anti-wick thread for no-compromise, water-resistant outdoor footwear and accessories.
Gral Multicolour	An attractive and varied multicoloured continuous filament polyester sewing thread for eye-catching stitching.

Special use Gral products are typically available across a select range of ticket sizes and technical information will in some cases vary from the above table.



LUBRICATED
POLYESTER

