

COATS
gral
multicolour



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FILAMENT
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Coats® Gral™ Multicolour

Coats Gral Multicolour is a continuous filament polyester thread with an especially smooth surface and clean seam appearance.

Gral Multicolour has been injection dyed with up to six different colours to give an attractive, varied multicolour effect on the thread. This sewing thread will give you eye-catching stitching effects on all kinds of denim wear. From subtle tone-in-tone to rainbow contrast colours, Gral Multicolour gives you that extra special look for distinctive looking garments. It has good abrasion resistance properties and is best used for sewing strong seams in severe sewing operations.

Thanks to the irregular sequence of the various shades each garment made with Gral Multicolour is unique. It is available in 10 standard shades and we offer a broad range of sizes for decorative stitching as well as for general seaming.

WHY CHOOSE GRAL MULTICOLOUR?

- Coats Gral Multicolour has been injection dyed with up to 6 different colours to give an attractive, varied multicolour effect on the thread
- Use Gral Multicolour thread for eye-catching stitching effects on all kinds of denim wear
- From subtle tone-in-tone to rainbow contrast colours, Gral Multicolour gives that extra special look and has good abrasion resistance properties

MAIN USES:

- Denim
- Jeans
- Ladieswear
- Childrenswear
- Menswear
- Various other applications where a special shade effect is desired

PRODUCT RANGE

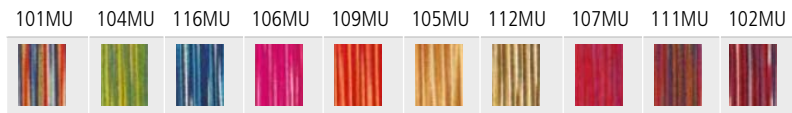
Art / Tkt	TEX	Ticket	Length	Strength cN	Elongation % Min - Max	Needle Size Metric
1MCF120	21	120	15000m	1420	16 - 22	75 - 90
1MC3040	60	40	3000m	4230	17 - 22	100 - 110
1MC3030	80	30	3000m	5200	17 - 26	130 - 140
1MC3020	135	20	3000m	8360	18 - 24	140 - 160
1MC1010	270	10	1000m	16630	20 - 35	160 - 180

*Other ticket sizes are available upon request.



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SHADE RANGE OF 10 POPULAR COLOURS



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
Laundering / dry cleaning:	Unaffected
Moisture regain:	0.4%

FASTNESS PROPERTIES

Washing at 60°C	(ISO 105 C10:2006 C(3))	Grade 4
Water Fastness	(ISO 105 E01:2010)	Grade 4
Rub Fastness	(ISO 105 X12:2001)	Grade 4
Hypochlorite Fastness	(ISO 105 N01:1993)	Grade 4
Dry Cleaning Fastness	(ISO 105 D01:2010)	Grade 4
Perspiration Fastness	(ISO 105 E04:2009)	Grade 4
Artificial Light Fastness	(ISO 105 B02:1994)	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.

To drive your hidden costs down, talk to Coats. From thread audits in pre-production to the latest technological bulletins, we'll provide support that achieves measurable results.

For more information, talk to your Coats representative today or visit coats.com

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 for Apparel	Lubricated continuous filament polyester for neat and attractive stitching.
Gral AS	Engineered for use as needle thread to prevent down migration during the sewing and lifetime of padded down jackets.
Gral AST Anti-static	Features a metallic conductive component which detracts electrical charge to prevent static build-up.
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 for Apparel	Lubricated continuous filament polyester for neat and attractive stitching.
Gral Protect	Sewing thread treated to give the finished thread anti-microbial / anti-fungal properties.

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.



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