

COATS  
*brio*



LUBRICATED  
POLYESTER  
BRAID

# Coats® Brio™

Coats Brio is a lubricated polyester braid made from pre-stabilised, high tenacity, continuous filament polyester for machine sewing. Coats Brio is an excellent sewing medium for high speed ornamental and decorative seams on footwear and leather goods. Its low stretch characteristics, soft finish and superior lubrication offer exceptional sewing performance in high speed sewing machines allowing you to produce an attractive, controlled, fine decorative seam on leather footwear and leather goods. Coats Brio can be used on all heavy sewing materials, such as moccasins, soles, rands and welts.

## WHY CHOOSE BRIO?

- Coats Brio can best be used for sewing decorative and particularly effective seams in severe sewing operations e.g. jeans, leather goods and shoes
- The complete absence of knots offers excellent machine productivity
- The double flanged package and unique winding mechanism retains the roundness of the braid without any crinkles and offers a neat seam appearance

## MAIN USES:

- Decorative seams on leather footwear and leather goods
- Reinforcing rows in leather footwear
- Saddle stitch and decorations in heavy materials
- Side wall stitching
- Outsole stitching
- Natural look rands and welts
- Goodyear stitching both on flat and box soles
- Suede or nubuk upper sewing
- Multidirectional seams on leather car interiors



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## PRODUCT RANGE

Braid Diameter (mm)	Ply	Strength cN	Elongation % Min - Max	Needle Size Metric
0.6	8	13000	13 - 21	140 - 160
0.8	12	21000	20 - 26	180 - 200
1.0	12	27000	18 - 26	200 - 230
1.1	12	20000	15 - 20	200 - 230
1.2	12	39000	15 - 23	200 - 230
1.3	16	25000	16 - 26	230 - 250
1.4	12	50000	20 - 26	230 - 250
1.6	12	60000	20 - 27	230 - 250
1.8	12	55500	20 - 40	230 - 250



## THERMAL PROPERTIES

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

Shrinkage is less than 1% @ 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 high temperatures

Organic solvents: Generally unaffected, but soluble in some phenolic compounds

Bleaching: Unaffected

Insects / microorganisms (mildew, rot): Unaffected

Moisture regain: Approximately 0.4%

## FASTNESS PROPERTIES

Wash fastness: ISO 105 C03 Grade 3 - 4

Water fastness: ISO 105 E01 Grade 3 - 4

Rub fastness: ISO 105 X12 Grade 3 - 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.



### 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.



### 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 [coats.com/brio](http://coats.com/brio)

## OTHER PRODUCTS IN THE BRIO RANGE

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

Product Name	Description
Brio Metallic	Highly engineered composite braid for creating decorative detail on tough materials such as denim and leather.

Special use Brio 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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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 for 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 2018

