

World of Coats *tre cerchi*

COATS
tre cerchi



100% COTTON

Product Information



Coats *tre cerchi* is a mercerised sewing thread made from 100% long staple cotton. It can be used for a wide range of applications and its lustrous appearance provides an excellent seam appearance.

Main Uses:

- Post dye garments
- Upholstery
- Mattresses
- Embroidery and decorative top stitching



Features and Benefits:

- High lustre provides enhanced appearance of embroidery and decorative top stitching
- Mercerised to give better affinity to dyestuffs used in post dye applications
- Low friction sewing lubricant helps provide good sewing performance

World of Coats

- Coats is the largest global thread supplier and has been the world's leading thread company for over 200 years.
- With manufacturing plants in over 70 locations and sales and distribution in more than 80 countries, Coats is uniquely placed to serve your thread needs anywhere in the world.
- Our state of the art colour communications management system, Coats ColourStitch®, enables exact sample matching and colour approval almost instantaneously between locations around the globe.

One colour range. One specification. Worldwide.

Coats operates to a global specification for Coats *tre cerchi* with quality audited by a centrally located team.

www.coatsindustrial.com



100% COTTON

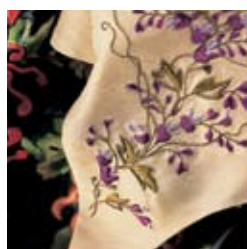
Product Information



Technical Specification:

Global Offer Tex No.	Ticket No. (Nm)	Ply	Average Strength		Elongation % Min - Max	Recommended Needle Size*	
			cN	Grams		Singer	Metric
21	80	3	647	660	5 - 9	10 - 11	70 - 75
30	60	3	774	789	5 - 9	10 - 12	70 - 80
35	50	3	1,000	1,019	5 - 9	12 - 14	80 - 90
45	40	3	1,098	1,119	5 - 9	14 - 18	90 - 110
60	30	3	1,891	1,929	5 - 9	18 - 19	110 - 120
70	24	3	1,999	2,039	5 - 9	18 - 19	110 - 120
90	20	3	2,597	2,648	5 - 9	19 - 21	120 - 130
120	16	3	3,695	3,767	5 - 9	21 - 23	130 - 160
240	8	3	6,096	6,216	5 - 9	21 - 23	130 - 160

* Needle size recommendations are a guide only and ultimately depend on the sewing application.
Since conditions and applications vary considerably in the use of thread, the thread user should assure herself or himself by preliminarily testing that the thread is suitable for the end use intended. Technical information listed above is based on current averages and should be taken only as indicative.



Physical and chemical properties of 100% cotton:

Thermal Properties:

- Burns readily. Decomposes at 400°C
- Prolonged exposure to sunlight causes yellowing and strength loss
- Good durability. Shrinkage at 100°C typically 1% or less
- Sensitive to temperatures greater than 350°C

Chemical Properties:

- Acids: Sensitive to mineral acids especially if halogenated
- Alkalis: Swells in caustic mercerising but is not damaged
- Organic solvents: Generally unaffected by most organic solvents. Generally unaffected by sodium hypochlorite, sodium perborate and peroxide bleaches under controlled conditions. There is a probability of strength loss if contaminated with iron during bleaching
- Insects / microorganisms (mildew, rot): Resistant to ageing and moth attacks but sensitive to mildew growth
- Moisture regain: Approximately 8%
- Finishing: The lubricants applied are designed to give consistent performance at high sewing speeds and a minimal variability between shades
- Bleaching: Good resistance to chlorine
- Abrasion resistance: Low

Coats *tre cerchi* 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 |
| • 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 |

These fastness grades represent minimum performance levels and, in practice, the majority of shades will exceed these levels.

Coats strongly recommends that sample garments are dyed and finished before proceeding to bulk production as the constituents of the fibre are outside of our control.

Coats can provide on site technical assistance for sewing post dyed garments. Please contact your local office.

