

World of Coats *terko satin*

COATS
terko satin



POLYESTER /
COTTON
CORESPUN GLACÉ

Product Information



Coats *terko satin* is a cotton wrapped polyester corespun thread with a glacé finish. Coats *terko satin* combines the excellent sewing performance of cotton with the superior strength and elongation characteristics of continuous filament polyester. The cotton wrap protects the polyester core from needle heat even in the most demanding of applications. The glacé finish is imparted through a special polishing process using a proprietary formulation. This finish binds together the fibrous surface of the thread and creates a lustrous finish to the thread with enhanced abrasion resistance.

Main Uses:

- Leather garments
- Gloves and hand bags
- Wallets and purses
- Automotive interiors
- Travel goods
- Leather goods
- Sporting goods
- Saddlery and harness
- Protective footwear
- Technical textiles



Features and Benefits:

- Corespun thread that couples the high tenacity of a polyester filament core with a cotton wrap, delivering the sewing performance of a continuous filament thread, yet providing the appearance of cotton
- Polished through a specially-engineered process using a customised formulation to ensure that the fibres are held together during tough sewing operations, resulting in strong seams
- Cotton wrap protects the polyester core from needle heat generated during high speed sewing, thus preserving the thread's strength
- In wet, outdoor conditions, cotton wrap absorbs the water and swells to fill the needle holes completely to prevent leakage
- Controlled stretch characteristics yield excellent sewability with tight, firm stitches on multiple leather surfaces

World of Coats

- Coats is the world's leading industrial thread business with a 200 year history of pioneering innovation.
- Providing complementary and value added products and services to the apparel and footwear industries.
- Applying new techniques to manufacture and supply engineered threads and yarns to a wide range of speciality segments.
- With manufacturing plants in over 70 locations and sales and distribution in many more, Coats is uniquely placed to serve your thread needs anywhere in the world.
- Our range of value adding services and tools is being expanded to help customers adapt and meet the challenges of our industry today. For example, the award winning 'Coats Colour Express' sampling service enables a fast and accurate global thread sampling capability and is backed by Coats' well known advanced colour management systems.

One colour range. One specification. Worldwide.

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

www.coatsindustrial.com



Product Guidelines:

Tex No.	Ticket No. (Nm)	Ply	Average Strength		Elongation % Min - Max	Recommended Needle Size*	
			cN	Grams		Singer	Metric
24	120	2	1,000	1,020	16 - 24	11 - 14	75 - 90
40	75	2	1,666	1,699	16 - 24	14 - 18	90 - 110
60	50	3	2,700	2,753	16 - 24	16 - 19	100 - 120
80	36	2	3,530	3,600	16 - 24	18 - 21	110 - 130
105	25	3	5,400	5,506	16 - 24	18 - 21	110 - 130
150	20	4	7,050	7,189	16 - 24	19 - 22	120 - 140
180	15	5	8,000	8,158	16 - 24	19 - 22	120 - 140
210	12	2	10,000	10,197	21 - 30	21 - 23	130 - 160
350	8	3	15,000	15,296	21 - 30	23 - 25	160 - 200
450	6	4	20,600	21,006	21 - 30	23 - 25	160 - 200
550	5	5	25,000	25,493	21 - 30	24 - 26	180 - 230
650	4	6	30,000	30,591	21 - 30	24 - 26	180 - 230

* 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 polyester corespun with cotton wrap glacé:

Thermal Properties:

- Polyester melts at 250 - 260°C, softens at 220 - 240°C
- Cotton discolours after prolonged exposure to high temperatures
- Thread shrinkage less than 1% @ 150°C

Chemical Properties:

- Mineral acids: Polyester: is resistant to most mineral acids
Cotton: disintegrates in hot dilute and cold concentrated acids
- Alkalis: Polyester: essentially unaffected by weak alkalis, but less resistant to stronger alkalis, especially at higher temperatures
Cotton: swells in caustic, no appreciable strength loss
- Organic solvents: Polyester: generally unaffected, but soluble in some phenolic compounds
Cotton: degraded by some solvents
- Bleaching: Polyester: unaffected
Cotton: bleached by hypochlorite and peroxides
- Insects / microorganisms (mildew, rot): Polyester: unaffected
Cotton: degrades but can be treated with special finishes
- Laundering / dry cleaning: Unaffected
- Moisture regain: Polyester: 0.4%, Cotton: 8%



Coats terko satin fastness properties:

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|-----------------------------|-------------------------|---------|
| • 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 |

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