

World of Coats

dual duty supercotton

COATS
*dual duty
supercotton*



POLYESTER
CORESPUN WITH
COTTON WRAP

Product Information

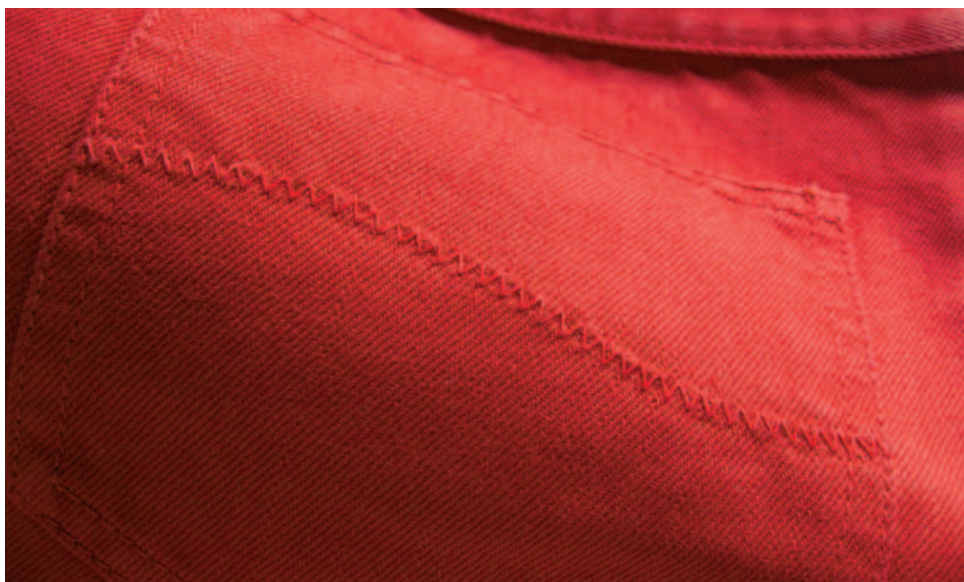


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COATS *dual duty supercotton* is a top quality corespun sewing thread that has been specifically designed for use in the manufacture of post dyed cotton garments. The production of post dyed cotton garments normally requires the use of a 100% cotton sewing threads. 100% cotton threads have some distinct drawbacks when compared to corespun threads in terms of:

- Strength
- Elongation
- Shrinkage
- Sewing performance
- Abrasion resistance

COATS *dual duty supercotton* is a highly engineered hybrid sewing thread design to deliver the benefits of corespun threads coupled with the suitability of use in making garments which are subsequently dyed.



Main uses:

- Garment dyed Jeans and Denim wear
- All 100 % cotton post dyed garments

Features & Benefits:

- The high tenacity polyester core provides higher tenacity and elongation as well as lower shrinkage compared to 100 % cotton threads leading to superior seam quality
- Special cotton wrap provides excellent dye uptake (see photo)
- Unique corespun construction delivers enhanced sewing performance and abrasion resistance even compared to "premium" quality 100 % cotton threads
- Specially formulated lubrication for low friction sewing

World of Coats

- Coats has been the Worlds leading thread company for over 200 years and is the only truly Global thread supplier.
- With manufacturing plants in over 40 locations and sales and distribution in more than 60 countries, Coats is uniquely placed to serve your thread needs, anywhere in the World.
- Coats operates to a global specification for COATS *dual duty supercotton* with quality audited by one centrally located team.



Technical specifications

Ticket (Nm) No.	Equivalent Cotton ticket (Ne) No.	Tex No.	Total decitex	Ply	Target strength in cN	Elongation % Average	Suggested needle size* Singer / Metric
120	60	24	290	2	720	19	10-14 / 70-90
75	40	40	450	3	1055	20	14-18 / 90-110
50	24	60	700	3	1780	19	18-21 / 110-130
25	12	120	1410	3	2890	14	21-23 / 130-160

(*Needle size suggestions are a guide only and ultimately depend on the sewing application)

Shade 07CTT	polyester core grey	cotton wrap natural	for medium to dark colour garments
Shade Y0000	polyester core natural	cotton wrap bleached	for light or very light (like white) garments
Shade 8975I	polyester core natural	cotton wrap indigo	for all kind of Jeans and Denim wear



Physical and chemical properties of polyester corespun with cotton wrap

Thermal properties:

- Polyester melts at 250-260 deg C, softens at 220-230 deg C
- Cotton discolours after prolonged exposure to high temperatures
- Thread shrinkage is less than 1 % at 150 deg C

Chemical properties:

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



COATS *dual duty supercotton* has been engineered to outperform 100 % cotton in terms of seam strength, seam elongation, on-machine performance and abrasion resistance in post dye applications. However, it is critical that the garment manufacturer ensures that the quality parameters such as seam strength, seam elongation, dye uptake, stitch definition etc. meet their required standards prior to moving to bulk production. After make and after dye processes have become so wide and varied that it is impossible to guarantee that any sewing thread will fully withstand them all.

Coats Technical Advisory Service is happy to support and advise customers in this regard.