

# World of Coats *dual duty*

COATS  
*dual duty*



POLYESTER  
CORESPUN WITH  
COTTON WRAP

Product Information



[www.coats.com](http://www.coats.com)

Coats *dual duty* is a top quality corespun thread that combines a high tenacity polyester filament core with a natural cotton cover. The filament core offers excellent strength and durability, while the long staple cotton wrap ensures excellent sewing performance and protects the core from needle heat.

#### Main Uses:

- Fine cotton, denim shirts and suits
- Fine fabrics and premium lingerie
- Leather goods, towels and home furnishings
- Classic jeans and outdoor wear



#### Features and Benefits:

- Coats *dual duty* is a high-tech corespun thread that combines the tenacity and strength of a polyester filament core with a cotton wrap, delivering excellent sewing performance in the most demanding applications
- Special lubricants ensure smooth, trouble-free sewing
- Cotton wrap protects the polyester core from needle heat and high ironing temperatures
- Strong polyester filament core allows the use of finer thread sizes improving seam appearance without compromising seam strength
- Extensive colour range
- Certified to Öko-Tex Standard 100, class 1, the most stringent class covering babywear
- Excellent wash-down characteristics make Coats *dual duty* ideal for jeans
- Outstanding abrasion resistance for demanding jeans and workwear applications

## World of Coats

- Coats has been the world's 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.
- Our state of the art colour communications management system, Coats ColourTalk®, enables exact sample matching and colour approval almost instantaneously between our locations around the globe.

#### One colour range. One specification. Worldwide.

Coats operates to a global specification for Coats *dual duty* with quality audited by one centrally located team.



Global Offer Tex. no.	Total Dtex	Ply	Target strength in grams	Elongation% min - max	Recommended needle size* Singer/Metric
24	260	2	1,020	17 - 23	10-14 / 70-90
40	430	2	1,910	17 - 23	14-18 / 90-110
60	680	2 or 3	3,160	17 - 23	18-21 / 110-130
80	880	2	3,780	18 - 24	19-22 / 120-140
105	1,050	2	3,780	18 - 24	21-23 / 130-160

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



**Physical and chemical properties of polyester corespun with cotton wrap:**

**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 dual duty fastness properties**

- |                         |               |         |
|-------------------------|---------------|---------|
| • Wash Fastness         | (ISO 105 CO3) | Grade 4 |
| • Water Fastness        | (ISO 105 E01) | Grade 4 |
| • Rub Fastness          | (ISO 105 X12) | Grade 4 |
| • Hypochlorite Fastness | (ISO 105 NO1) | Grade 4 |
| • Dry Cleaning Fastness | (ISO 105 D01) | Grade 4 |
| • Perspiration Fastness | (ISO 105 EO4) | Grade 4 |
| • Light Fastness        | (ISO 105 B02) | Grade 4 |

(Some very bright shades do not possess the high level of bleach fastness displayed by the majority of shades. We recommend that these be checked before use in any application involving bleaching agents, in particular for swimwear or garment finishing processes.)

