

World of Coats *astra*

COATS
astra



STAPLE SPUN
POLYESTER

Product Information



www.coats.com

Coats *astra* is a lubricated super high tenacity 100% staple spun polyester thread which has a uniform construction and is resistant to sunlight and chemical degradation. It is an exceptional thread of its type with dependable sewing performance in high-speed and critical sewing operations.

Main Uses:

- Shirts and blouses
- Jackets
- Lingerie
- Children's apparel
- Underwear
- Jeans
- Knitwear
- Workwear
- Dresses



Features and Benefits:

- Specially lubricated to deliver excellent sewing performance
- Wide range of colours at an affordable price
- 100% staple spun polyester, resistant to sunlight and chemical degradation
- Certified to Öko-Tex Standard 100, class 1, the most stringent class covering baby wear

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 locations around the globe.

One colour range. One specification. Worldwide.

Coats operates to a global specification for Coats *astra* 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
18	180	2	660	12 - 18	9-11 / 65-75
27	275	2 or 3	970	13 - 19	11-14 / 75-90
40	410	2	1,530	13 - 19	14-18 / 90-110
60	600	2	2,190	15 - 21	18-21 / 110-130
80	900	3	3,320	16 - 22	19-22 / 120-140
105	1,200	4	4,460	16 - 22	21-23 / 130-160

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

Physical and chemical properties of staple spun polyester:

Thermal Properties

- Melts at 250 - 260°C, softens at 220 - 240°C
- Shrinkage 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 higher temperatures.
- Organic solvents: Generally unaffected, but soluble in some phenolic compounds.
- Bleaching: Unaffected
- Insects / microorganisms (mildew, rot): Unaffected
- Laundering / dry cleaning: Unaffected
- Moisture regain: 0.4%

Coats *astra* 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

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

