

World of Coats *ultra dee*

COATS
ultra dee



BONDED
CONTINUOUS
FILAMENT
POLYESTER

Product Information



Coats *ultra dee* is a sewing thread made from high tenacity continuous filament polyester with an innovative bonding technology. Coats *ultra dee* is specifically designed for demanding applications to deliver superior sewing performance for maximum productivity and excellent seam quality.

Main Uses:

- Automotive seat trims
- Dress and casual footwear
- Protective footwear
- Sports footwear
- Upholstery and furniture
- Luggage and leather goods
- Outdoor goods
- General purpose marine applications



Features and Benefits:

- Innovative bonding technology that safeguards against ply untwisting during the most demanding of sewing applications - no opening of plies with resultant broken/skipped stitches
- 20 to 33% higher retained strength compared with standard lubricated sewing threads leading to less seam breaks
- No bond shedding and resulting contamination of needles and sewn products
- Soft and flexible thread for more balanced stitches
- Strong ply-adhesion leading to a more defined stitch and superior seam appearance (see photos above)
- Vibrant and rich colours which have only been achieved with lubricated threads in the past

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.
- 'Coats Colour Express' sampling service enables a fast and accurate global thread sampling capability and is backed by Coats' well known advanced colour management and communications systems.

One colour range. One specification. Worldwide.

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

www.coatsindustrial.com



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Product Guidelines:

Tex No.	Ticket No. (Nm)	Ply	Average Strength		Elongation % Min - Max	Recommended Needle Size*	
			cN	Grams		Singer	Metric
45	60	2	3,136	3,198	17 - 24	14 - 18	90 - 110
70	40	3	4,704	4,797	17 - 24	16 - 19	100 - 120
80	30	3	5,300	5,404	17 - 30	19 - 22	120 - 140
135	20	3	8,250	8,413	17 - 30	21 - 23	130 - 160
180	15	3	11,474	11,700	15 - 25	22 - 23	140 - 160
210	13	3	13,720	13,990	15 - 25	25 - 27	160 - 180
270	10	3	17,738	18,087	15 - 25	27 - 28	250 - 280
350	9	3	17,738	18,087	15 - 25	27 - 28	250 - 280
400	8	3	27,930	28,480	15 - 30	28 - 29	280 - 300
450	7	3	31,066	31,678	15 - 30	28 - 29	280 - 300
500	6	6	37,730	38,473	15 - 30	29 - 30	300 - 330

* 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.

For marine and tough outdoor applications:

- UV-inhibitor filaments can be used in all sizes 220 denier and above
- Special finishes available such as anti-wick, high lubrication, flame retardant



Physical and chemical properties of bonded continuous filament polyester:

Thermal Properties:

- Melting point 250 - 260°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: Excellent resistance

Coats *ultra dee* fastness properties:

- Wash Fastness at 60°C (ISO 105 C10C) Grade 4
- Water Fastness (ISO 105 E01) Grade 4
- Rub Fastness (ISO 105 X12) Grade 4
- Artificial Light Fastness (SAE J1885 40 kJ/m2) Grade 4

