

World of Coats *Eco Verde* organic cotton

COATS
Eco Verde



ORGANIC
COTTON

Product Information

Coats *Eco Verde organic cotton* sewing thread is made from the best quality Giza organic cotton staple fibre. Being mercerised it is treated under tension to provide high lustre and strength. The mercerising process also gives *Eco Verde organic cotton* a high affinity to the dyestuffs used in the post dyeing of garments.

Coats *Eco Verde organic cotton* is primarily intended for use in the manufacture of post dyed organic cotton garments. However, where there is a requirement for the thread to be dyed *Eco Verde organic cotton* can be made available in a wide selection of shades dyed using G.O.T.S. certified dyestuffs.

Main Uses:

- General make up of 100% organic cotton garments.



When 100% cotton threads are used for post dye applications there can be no guarantee of absolute compatibility between the sewing thread and the garment after the dyeing process, even in apparently ideal conditions.

100% cotton threads are lower in strength and elongation properties compared to their synthetic equivalents. Therefore, it may be necessary to use a larger size of thread at a higher stitch rating in order to achieve the desired seam strength and elongation. Using a coarser thread often demands the use of a larger size of needle and this leads to an increased risk of needle damage on knitted fabrics, especially those which are to be post dyed.

Coats always recommends small scale batch testing of all post dyed garments, prior to bulk production to ensure that the seams meet the customers' quality expectations.

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 70 countries, Coats is uniquely placed to serve your thread needs anywhere in the world.
- Coats operates to a global specification for *Eco Verde organic cotton*.





Article No.	Tex no.	Cotton (Ne) Ticket No.	Make-up (m)	Total Dtex average	Ply	Target strength in grams	Elongation% min - max
EV41	30	60	5000	300	3	830	4
EV41	35	50	5000	380	3	1080	5
EV41	40	40	5000	460	3	1360	5
EV41	60	30	5000	695	3	2070	5
EV41	80	24	5000	760	3	2280	6
EV41	105	18	5000	1240	3	3750	7

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



Physical and chemical properties of 100% cotton:

Thermal Properties

- Cotton discolours after prolonged exposure to high temperatures

Chemical Properties

- Acids: Sensitive to mineral & organic acids especially if halogenated.
- Alkalis: Swells in caustic mercerising but is not damaged.
- Organic solvents: Generally unaffected by most organic solvents. Generally unaffected by sodium hypochlorite, sodium perborate, and peroxide bleaches under controlled conditions. There is a probability of strength loss if contaminated with iron during bleaching.
- Insects / microorganisms (mildew, rot): Resistant to ageing and moth attacks but sensitive to mildew growth.
- Laundering / dry cleaning: Good durability. Shrinkage at 100°C typically less than 1%. Sensitive to temperatures greater than 130°C.
- Moisture regain: Approximately 8%
- Heat: Burns readily. Decomposes at 160°C. Prolonged exposure to sunlight causes yellowing and strength loss.
- Finishing: The lubricants applied are designed to give consistent performance at high sewing speeds and a minimum variability between shades.



Coats *EcoVerde organic cotton* fastness properties

- Wash Fastness (ISO 105 C03) Grade 4
- Water Fastness (ISO 105 E01) Grade 4
- Rub Fastness (ISO 105 X12) Grade 4
- Dry Cleaning Fastness (ISO 105 D01) Grade 4
- Perspiration Fastness (ISO 105 E04) Grade 4

Coats can provide on site technical assistance for sewing post dyed garments.
Please contact your local office.