

# World of Coats *barbour's linen*

COATS

*barbour's linen*



LINEN

Product Information



Linen thread has been made by Barbour for over 200 years. Coats *barbour's linen* uses only the highest quality of flax. Consistency is guaranteed by the blending of batches. One of linen's greatest assets is its low extensibility and thus its ability to hold a tight knot in the lockstitch seam; this makes it particularly suitable for welt and other forms of sole sewing. The low extensibility makes Coats *barbour's linen* ideal for end uses where no 'give' is required. The natural look of the linen thread seam enhances its aesthetic appearance. Linen degrades naturally and thus is an environmentally friendly sewing thread.

#### Main Uses:

- Automotive
- Bag manufacture
- Bedding
- Bookbinding
- Cablebinding
- Canvas
- Carpets
- Cigarette tapes
- Cricket balls
- Cricket bats
- Electrical cables
- Fishing line
- Footwear
- Furniture upholstery
- Equestrian
- Lace
- Medical supplies
- Polishing discs
- Pool cues
- Saddlery
- Sporting goods
- Weaving
- Wigs



#### Features and Benefits:

- Coats *barbour's linen* does not melt and has high initial modulus
- Linen elasticity is almost nil, it does not stretch and is easily dyed
- Linen forms a good knot, high strength and strength increases when wet (10-15%)
- Good fastness to UV Light and high moisture absorption
- Natural product and use for traditional and authentic products providing an aesthetic appearance
- Coats *barbour's linen* will wear at the same rate as other natural materials
- Linen degrades naturally and thus is an environmentally friendly solution
- It is a natural fibre, does not melt and swells when wet
- Low extension at break, approximately 2.5%
- Gets stronger when wet, approximately 5%
- Satin finished linen thread has an excellent appearance in stitched leather seams
- Knots hold better than synthetic equivalents

## 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.
- Our range of value adding services and tools is being expanded to help customers adapt and meet the challenges of our industry today. For example, the award winning 'Coats Colour Express' sampling service enables a fast and accurate global thread sampling capability and is backed by Coats' well known advanced colour management systems.

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

Coats operates to a global specification for Coats *barbour's linen* with quality audited by a centrally located team.

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



## LINEN

## Product Information



## Product Guidelines:

Description	Thickness (mm)	Sizing	Ply	Average Strength		Recommended Needle Size*	
				cN	Grams	Singer	Metric
Linen braid	1.0	28s lea x 12	12	19,600	19,986	25 - 26	200 - 230
	1.2	19.5s lea x 12	12	26,460	26,981	27 - 28	250 - 280

Description	Tex No.	Sizing	Ply	Average Strength		Recommended Needle Size*	
				cN	Grams	Singer	Metric
Linen cord	270	18 / 3c	3	7,840	7,994	21 - 23	130 - 160
	350	18 / 4c	4	10,682	10,892	23 - 25	160 - 200
	500	18 / 6c	6	16,464	16,788	24 - 25	180 - 200
	800	18 / 9c	9	24,990	25,482	25 - 27	180 - 250
	1,100	18 / 12c	12	34,300	34,976	27 - 29	250 - 300

Description	Tex No.	Sizing	Ply	Average Strength		Recommended Needle Size*	
				cN	Grams	Singer	Metric
Linen (Yellow label)	270	18 / 3c	3	7,800	7,954	21 - 23	130 - 160
	350	18 / 4c	4	10,700	10,911	23 - 25	160 - 200
	450	18 / 5c	5	13,800	14,072	23 - 25	160 - 200
	500	18 / 6c	6	16,500	16,825	24 - 25	180 - 200
	600	18 / 7c	7	19,000	19,374	25 - 27	200 - 250
	700	18 / 8c	8	22,200	22,637	26 - 28	230 - 280

\* 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.

## Finishing Types

**SOFT:** Supplied untreated with no finish suitable for many operations where finish is either applied on the machine or it is not required

**SATIN / GLACE:** Excellent stitching properties, superb appearance, increasing in strength

**WAXED:** Waxed threads are mainly used in the sewing of footwear

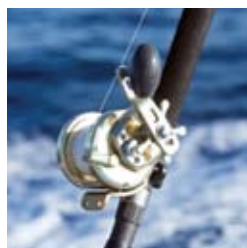
**CMC (Carboxymethyl Cellulose):** Sutures only

## Accreditations

ISO/TS 16949; ISO 14001:2004

Öko-Tex Standard 100

ISO 13485 EC certificate for Medical devices in Suture Linen thread establishment



## Physical and chemical properties of linen:

- Mineral acids: Fair resistance to most mineral acids
- Alkalis: Poor resistance
- Acids: Fair resistance
- Organic solvents: Excellent, generally unaffected by most organic solvents
- Bleaching: Bleaches
- Microorganisms (mildew, rot): Resistant to ageing and moth attacks but sensitive to mildew growth
- Laundering / dry cleaning: Good durability
- Moisture regain: 15 - 20%
- Abrasion Resistance: Good
- Sunlight Resistance: Good
- Chemical Resistance: Fair
- Specific Gravity (g/ml): 2

