

COATS
aptan



CONTINUOUS
FILAMENT
NYLON 6.6

Coats[®] Aptan[™]

Coats Aptan is a lubricated nylon thread made from pre-stabilised continuous filament nylon 6.6 and is suitable for garment dye programmes with nylon fabrics.

Aptan has controlled stretch characteristics and a soft, low friction finish which reduces the effects of needle heat and offers excellent abrasion resistance.

WHY CHOOSE APTAN?

- Coats Aptan 6.6 nylon is 30% stronger than ordinary nylon 6.0 thread. The higher strength to fineness ratio makes very fine seams possible in footwear and other applications
- Compared with the typical apparel sewing threads made from polyester Aptan has higher strength and slightly higher elongation properties
- Treated with specially formulated lubricant, Coats Aptan offers excellent frictional characteristics during high speed sewing operations
- Controlled stretch characteristics for good loop formation and tight, firm and balances stitches
- Excellent loop formation, consistent stitch formation and neat seam appearance
- Certified to STANDARD 100 by OEKO-TEX[®], CLASS I
- Meets Coats restricted substance list
- Suitable for vegan requirements

MAIN USES

- Suitable for garment dye programmes with nylon 6.6 fabrics
- Leather goods
- Footwear
- Outdoor goods and sports equipment
- Luggage and travel goods
- Seat belts
- Filtration
- Automotive
- Multineedle quilting
- Mattresses
- Protective footwear



Coats Aptan

PRODUCT RANGE

Fine Sizes

TEX	Ticket	Length	Strength cN	Elongation % Min - Max	Needle Size Metric
16	192*	5000m	810	30 - 40	65 - 75
24	120	5000m	1580	12 - 25	75 - 90
24	122*	4000m	1440	20 - 32	75 - 90

* Ticket size ending in 2 is high twist version for higher speed apparel sewing. Please contact your local Coats for further details.

Medium Sizes

TEX	Ticket	Length	Strength cN	Elongation % Min - Max	Needle Size Metric
35	80	5000m	2160	15 - 26	75 - 90
45	60	5000m	3210	16 - 29	90 - 100
45	62	2250m	3090	20 - 32	90 - 100
70	40	1000m	4700	16 - 29	100 - 120
105	30	1000m	6100	16 - 29	110 - 130
135	20	1000m	9500	17 - 29	120 - 140
210	13	1000m	13330	17 - 31	130 - 160
270	10	1000m	18170	17 - 31	160 - 200

Coarse Sizes

TEX	Ticket	Strength cN	Elongation % Min - Max	Needle Size Metric
350	9	23520	17 - 32	160 - 200
400	8	23090	17 - 32	160 - 200
450	7	27790	17 - 32	160 - 200
500	6	34200	17 - 32	160 - 200
600	5	37430	20 - 32	180 - 220

Please check with your local Coats representative for available put-up lengths.

THERMAL PROPERTIES

Melts at 260°C, sticks at 190°C and above

Shrinkage is less than 1% @ 150°C

CHEMICAL PROPERTIES

Mineral acids: Decomposed by strong mineral acids but resistant to weak acids

Alkalis: Essentially unaffected by weak alkalis, but less resistant to stronger alkalis, especially at higher temperatures

Organic solvents: Generally unaffected

Bleaching: Unaffected, deterioration dependant on conditions

Insects / microorganisms (mildew, rot): Unaffected

Moisture regain: 0.4%

FASTNESS PROPERTIES

Wash fastness 60°C: ISO 105 C10C Grade 4

Water fastness: ISO 105 E01 Grade 4

Rub fastness: ISO 105 X12 Grade 4 (cotton)

Artificial light fastness: ISO 105 B02 Grade 3-4 (minimum)



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EXPERT REAL WORLD SUPPORT

The final cost of any product also includes hidden costs, fuelled by the methods and tools applied to it. Our experts know exactly how to reduce those costs, save time and increase productivity.



Seamworks

Install our Seamworks software to accurately calculate costs prior to production, putting an end to the risk of over or under ordering materials, and incurring unnecessary extra costs. The Seamworks tool is provided with installation, training and ongoing support included.



One to One Visits

There's no need to come to us, our experts will travel to your site. In person, online or via the phone, our trained consultants deal with the kind of issues any busy factory may face, providing a solution for today and a blueprint for future efficiency.



Training and Presentations

From product selection to stitch formation, the use of colour to solutions for common production issues, we take the learning gathered through years of hands on experience and present it in the form of high impact seminars, workshops and presentations.



Embroidery Service Centre

Our Embroidery Service Centre makes embroidering a design much easier, increasing productivity at the same time as enhancing the design itself. Email the design and any problematic issues to us and our technicians will email the improved design right back.

To drive your hidden costs down, talk to Coats. From product audits in pre-production to the latest technological bulletins, we'll provide support that achieves measurable results.

For more information, talk to your Coats representative today or visit coats.com

OTHER PRODUCTS IN THE APTAN RANGE

To complement the Aptan range, we also have a selection of specialist Aptan threads. Each of these combines the superior properties of the Aptan product with additional benefits specific to the end use.

Product Name	Description
Aptan AW	Lubricated nylon sewing thread with a special water resistant finish ideal for heavy footwear and outdoor applications.
Aptan Dental Floss	Lubricated nylon thread ideal for floss products..
Aptan XTRU	PVC coated nylon yarn widely used for braided wire harness covers and can function in extreme environments.

Special use Aptan products are typically available across a select range of ticket sizes and technical information will in some cases vary from the above table.



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