

# World of Coats *dabond*

COATS  
*dabond*



BONDED  
CONTINUOUS  
FILAMENT  
POLYESTER

Product Information



Coats *dabond* is a bonded, twisted continuous filament polyester thread. Combining superior sewing performance with excellent UV and abrasion protection, Coats *dabond* is specifically designed to provide resistance against harsh weather conditions. Coats *dabond* can withstand UV degradation in all outdoor applications that are exposed to marine water and sunlight.

#### Main Uses:

- Sail making
- Boat tops
- Flags
- Military supplies
- Tents and awnings
- Canvas and tarps
- Inflatables / hot air balloons
- Marine lift slings and tie downs
- Applications requiring vinyl and chlorine bleach-fastness



#### Features and Benefits:

- Coats *dabond* has excellent UV resistance for applications exposed to marine water and sunlight
- Unique bonding technology that safeguards against ply untwisting in zig zag sewing and can sew through many layers of heavily finished fabric
- Dual level lubricated finish for needle heat protection and smooth sewing
- Excellent bleach, mildew and rot resistance
- Coats *dabond* is the only environmentally-friendly bonded polyester thread available in the market
- The industry standard for sail making and other outdoor and marine applications
- Special version of in-line dyed Coat *dabond* available for excellent vinyl fastness

## 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 *dabond* with quality audited by a centrally located team.

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

## Product Guidelines:

| Tex No. | Ticket No.<br>(Nm) | Ply | Average Strength |        | Elongation %<br>Min - Max | Recommended<br>Needle Size* |           |
|---------|--------------------|-----|------------------|--------|---------------------------|-----------------------------|-----------|
|         |                    |     | cN               | Grams  |                           | Singer                      | Metric    |
| 30      | 100                | 2   | 2,058            | 2,099  | 12 - 22                   | 12 - 16                     | 80 - 100  |
| 35      | 80                 | 3   | 2,130            | 2,172  | 12 - 24                   | 12 - 16                     | 80 - 100  |
| 45      | 60                 | 2   | 2,400            | 2,447  | 12 - 24                   | 14 - 18                     | 90 - 110  |
| 60      | 50                 | 2   | 3,330            | 3,396  | 12 - 24                   | 14 - 18                     | 90 - 110  |
| 70      | 40                 | 3   | 4,250            | 4,334  | 12 - 24                   | 16 - 19                     | 100 - 120 |
| 80      | 35                 | 3   | 5,195            | 5,297  | 12 - 24                   | 19 - 22                     | 120 - 140 |
| 90      | 30                 | 4   | 6,468            | 6,600  | 12 - 24                   | 19 - 22                     | 120 - 140 |
| 105     | 25                 | 4   | 6,664            | 6,800  | 12 - 24                   | 19 - 22                     | 120 - 140 |
| 135     | 20                 | 3   | 8,085            | 8,244  | 12 - 24                   | 21 - 23                     | 130 - 160 |
| 150     | 18                 | 3   | 8,820            | 8,994  | 16 - 28                   | 21 - 23                     | 130 - 160 |
| 210     | 13                 | 3   | 12,000           | 12,236 | 16 - 28                   | 22 - 24                     | 140 - 180 |
| 240     | 12                 | 3   | 14,430           | 14,714 | 16 - 28                   | 23 - 25                     | 160 - 200 |
| 270     | 10                 | 3   | 17,000           | 17,335 | 14 - 26                   | 23 - 25                     | 160 - 200 |
| 350     | 9                  | 3   | 20,000           | 20,394 | 14 - 26                   | 23 - 25                     | 160 - 200 |
| 400     | 8                  | 3   | 27,930           | 28,480 | 15 - 30                   | 24 - 26                     | 180 - 230 |
| 450     | 7                  | 3   | 29,400           | 29,979 | 14 - 26                   | 24 - 26                     | 180 - 230 |
| 500     | 6                  | 6   | 37,730           | 38,473 | 15 - 30                   | 25 - 27                     | 200 - 250 |
| 700     | 4                  | 6   | 46,158           | 47,067 | 15 - 30                   | 27 - 29                     | 250 - 300 |

\* 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.

- UV-inhibitor filaments used in all sizes 220 denier and above
- Special finishes available: anti-wick, high lube, FR
- Make Up (King Spool): - By length (Meters): 1000, 1500, 2500  
- By weight (Kgs): 0.113, 0.227, 0.454, 0.907

Coats *dabond* [belbobs and barbobs]

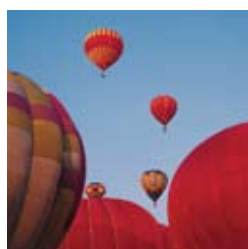
| Tex | Ticket | Style | Meters /<br>Belbobs | Tex | Ticket | Style | Meters /<br>Belbobs |
|-----|--------|-------|---------------------|-----|--------|-------|---------------------|
| 30  | 80     | G     | 78                  | 135 | 20     | U     | 30                  |
| -   | -      | U     | 151                 | -   | -      | 39    | 29                  |
| 70  | 40     | U     | 51                  | 210 | 13     | 58    | 43                  |
| 90  | 30     | FD    | 24                  | 270 | 10     | A     | 6*                  |
| -   | -      | G     | 21                  | 350 | 9      | X     | 60                  |
| -   | -      | J     | 34                  | 400 | 8      | X     | 48                  |
| -   | -      | MD    | 36                  | -   | -      | 41    | 48                  |
| 135 | 20     | M     | 22                  |     |        |       |                     |

\* Barbob (with side and with core)

Only popular bobbin styles listed. All yardages are approximate and are for bonded colours.

### Bobbin Benefits:

- 5-20% machine productivity increase, precision wind for uniform pull-off tension, improved stitch appearance.



### Physical and chemical properties of bonded continuous filament polyester:

#### Thermal Properties:

- Melting point 250 - 260°C
- Special in-line dyed Coats *dabond* available for UV fade resistance of 4 - 5

#### 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
- Insects / microorganisms: Unaffected
- Moisture regain: Approximately 0.4% (drip dry)

#### Coats *dabond* fastness properties:

- Wash Fastness (ISO 105 C06) Grade 4 - 5
- Water Fastness (ISO 105 E01:2010) Grade 4
- Rub Fastness (ISO 105 X12:2001) Grade 3 - 4  
(4 - 5 for in-line dyed version)
- Vinyl Transfer (CTC-TP-1032-003) Grade 5  
(for in-line dyed version)

Since conditions and applications vary considerably in the use of thread, the thread user should assure himself by preliminary testing that the thread is suitable for the end use intended.

