



**100% POLYESTER
CONTINUOUS FILAMENT
WATER-REPELLENT
SEWING THREAD**

Durafix WR®

Durak Durafix WR® is a 100% high-tenacity continuous filament polyester sewing thread with water-repellent properties. Ideal for outdoor products, shoes, and accessories, it features a specially formulated surface that provides excellent water resistance. PFC-free coating prevents water absorption and stops water from passing through stitch holes when the correct sewing tension is used. With high tenacity and optimal stretch, Durafix WR® produces smooth, attractive stitches in leather shoes. Special lubrication ensures a high durability-to-fineness ratio, a refined appearance, and enhanced sewing performance.



Product Properties

- Reliable sewing thread with a natural appearance.
- Special finishing treatments ensure flawless sewing.
- Highly resistant to washing and chemical agents.
- Proper sewing tension prevents water from passing through the stitch holes.



Durafix WR[®]

Areas of Use

- Leather Products
- Protective Footwear
- Walking Footwear
- Safety Footwear
- Furniture
- Protective Clothing (e.g. raincoats and coats)

Physical Properties

Melts at 260°C and softens at 220 - 240°C.

Shrinkage is less than 1% at 150°C.



Chemical Properties

Mineral Acids: Resistant to most mineral acids.

Alkalis: Unaffected by weak alkalis, moderately resistant to strong alkalis.

Organic Solutions: Unaffected by common solvents, soluble in some phenolic compounds.

Bleaching: Unaffected.

Micro Organisms / (Fungus, mold): Unaffected.

Washing / Dry Cleaning: Unaffected.

Moisture Regain: 0.4%

Product Options

DURAK Durafix WR[®] offers a wide range of colors in a variety of meter sizes and thicknesses.

Color Fastness

| | | |
|-------------------------|-------------|--------|
| Washing Fastness (60°C) | ISO 105 C06 | Min. 4 |
| Water Fastness | ISO 105 E01 | Min. 4 |
| Rubbing Fastness | ISO 105 X12 | Min. 4 |
| Hypochlorite Fastness | ISO 105 N01 | Min. 4 |
| Dry Cleaning Fastness | ISO 105 D01 | Min. 4 |
| Perspiration Fastness | ISO 105 E04 | Min. 4 |
| Light Fastness | ISO 105 B02 | Min. 5 |

Storage Conditions

Must be stored away from heat, humidity and direct sunlight.





Durafix WR®

Thickness and Strength Chart

| Ticket No. | Nominal Tex | Strength CN | Elongation % | Needle Size (Nm) |
|------------|-------------|-------------|--------------|------------------|
| 6 | 500 | 31.000 | 25 - 35 | 160 - 280 |
| 8 | 330 | 22.000 | 25 - 35 | 160 - 280 |
| 10 | 280 | 18.000 | 25 - 35 | 160 - 280 |
| 11 | 270 | 15.000 | 25 - 35 | 160 - 280 |
| 15 | 175 | 11.000 | 25 - 35 | 140 - 160 |
| 20 | 135 | 9.200 | 25 - 35 | 140 - 160 |
| 30 | 80 | 5.500 | 14 - 26 | 130 - 140 |
| 40 | 60 | 4.700 | 14 - 26 | 100 - 110 |
| 50 | 55 | 3.500 | 15 - 23 | 100 - 110 |
| 60 | 45 | 2.950 | 14 - 24 | 90 - 100 |
| 70 | 40 | 2.650 | 14 - 24 | 90 - 100 |
| 80 | 35 | 2.280 | 14 - 20 | 75 - 90 |
| 100 | 27 | 1.800 | 14 - 20 | 70 - 90 |
| 120 | 24 | 1.600 | 14 - 20 | 70 - 90 |
| 150 | 20 | 1.200 | 14 - 20 | 70 - 90 |
| 180 | 16 | 950 | 14 - 20 | 65 - 75 |
| 200 | 12 | 760 | 14 - 20 | 65 - 75 |
| 300 | 10 | 650 | 14 - 20 | 55 - 60 |
| 400 | 6 | 450 | 14 - 20 | 55 - 60 |

Other Durafix Sub-Brands

- Durafix AS®** Anti-static sewing thread made of 100% high tenacity continuous filament polyester, pre-stabilized together with a conductive material. It is designed for use in applications where electrostatic charge is a concern.
- Durafix UV®** 100% high tenacity continuous filament polyester sewing thread with UV resistance. Durafix UV® minimizes UV degradation such as discoloration low abrasion resistance and loss of tenacity.
- Durafix OS®** 100% high-tenacity continuous filament polyester sewing thread with special finishing processes in order to provide high sewing performance in the most challenging conditions. A controlled lubrication process is applied by excluding substances such as silicone, grease, graphite, wax and paraffin during the finishing process.
- Durafix CFR®** 100% high tenacity continuous filament polyester sewing thread produced by adding flame-retardant characteristics. The thread surface is coated with flame retardant chemical in accordance with the standards of chemical coating method.
- Durafix Multicolor®** Multicolor sewing thread made of 100% high-tenacity continuous filament polyester. It is injection-dyed in up to four different colors to create a multi-colored effect on the thread.
- Durafix Eco®** High-tenacity polyester sewing thread, produced from 100% recycled polyester. It offers all the advantages of a sustainable thread without compromising sewing performance.