



## 100% CONTINUOUS FILAMENT POLYESTER FLAME-RETARDANT SEWING THREAD

### Durafix CFR®

Durak Durafix CFR® is a 100% high-tenacity continuous filament polyester sewing thread treated with a flame-retardant chemical through a controlled coating process. The surface coating complies with relevant chemical application standards. Even after 20 washes, it maintains its flame-retardant performance in accordance with NFPA 701. When removed from a heat source, the thread self-extinguishes due to its flame-retardant treatment. Its high abrasion resistance ensures reliable performance in high-speed sewing applications. With high strength, bright colors, and a wide range of ticket sizes, it delivers excellent seam quality on fabrics ranging from lightweight materials to heavy denim.



### Product Properties

- Flame retardant structure
- High tenacity
- Provides smooth and consistent sewing performance.
- Perfect for flame-retardant garments that demand fine seams with uncompromised strength.

# Durafix CFR®

## Areas of Use

- Occupational Safety Clothing
- Furniture
- Home Textiles
- Decorative Products
- Footwear

## 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 CFR® offers a wide range of colors in a variety of meter sizes and thicknesses.

## Storage Conditions

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



## 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 |
| Hypoclorite 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 |

• NFPA 701: Standard Methods of Fire Tests for Flame Propagation of Textiles and Films

| DURAFIX CFR     | LOSS OF MASS | BURN TIME    |
|-----------------|--------------|--------------|
| Before washing  | 6,61%        | No drippings |
| After 10 washes | 3,09%        | No drippings |
| After 15 washes | 2,80%        | No drippings |
| After 20 washes | 1,64%        | No drippings |



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## 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       | 15-23        | 100-110          |
| 50         | 55          | 3.500       | 14-24        | 100-110          |
| 60         | 45          | 2.950       | 14-24        | 90-100           |
| 70         | 40          | 2.650       | 14-20        | 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 WR®

100% high tenacity continuous filament polyester sewing thread with water repellent properties. It has a PFC-free water repellent surface coating.

### 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 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.