



Fire-Safe

**FLAME-RETARDANT – WATER-REPELLENT
100% STAPLE SPUN PARA ARAMID
SEWING THREAD**

P-Aramid WR®

DURAK Fire Safe P-Aramid WR® is a sewing thread with permanent flame-retardant and water-repellent properties. Available in various thicknesses, it is made of 100% staple-spun para-aramid filament, offering high resistance up to 500°C. It is an excellent choice for outdoor products, shoes, and accessories, thanks to its specially formulated surface that provides superior water resistance. PFC-free water-repellent coating prevents water absorption and ensures that water does not pass through stitch holes when the correct sewing tension is applied.



Product Properties

- ❖ Water is prevented from passing through stitch holes when correct sewing tension is applied.
- ❖ Special finishing processes ensure superior sewing performance.
- ❖ Specially developed to meet heat safety standards in many industries such as aviation, automotive and insulation.
- ❖ Tested and certified according to EN ISO 15025 non-flammability standard.
- ❖ Excellent resistance to flame, heat and electric sparks.



P-Aramid WR®

Areas of Use

- ✦ Military Protective Clothing
- ✦ Safety Footwear
- ✦ Flame-Retardant Safety Workwear
- ✦ Tape-Edge Applications
- ✦ Thermal Insulation
- ✦ Protective Gloves
- ✦ Firefighter Apparel



Physical and Chemical Properties

- Self-extinguishing at 500°C: when removed from the heat source, flames extinguish immediately instead of spreading.
- Para Aramid should not be exposed to UV rays. Extended sunlight exposure may fade colors and reduce strength. Extended UV exposure (40–60 weeks) may result in up to 50% strength loss.
- High resistance to lubricants and bleaches.
- Good abrasion resistance.

Product Options

DURAK Fire safe P-Aramid WR® is offered in various meter sizes and thicknesses.

Storage Conditions

Must be stored in a place away from heat, sunlight, humidity and in black bags.

Color Fastness

Washing fastness at 60°C	ISO 105 C06	Min. 3
Rubbing fastness	ISO 105 X12	Min. 3

P-Aramid WR[®]

Thickness and Strength Chart

Tkt No.	Nominal Tex	Strength CN	Elongation %	Needle Size (Nm)
30/1	19	1.300	2 - 5	*
16/2	70	5.000	2 - 8	*
50	60	4.800	3 - 6	90 - 110
70	40	3.000	3 - 6	75 - 90

