



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

M-Aramid WR®

Durak Fire Safe M-Aramid WR® is a sewing thread with permanent flame-retardant and water-repellent properties. Available in various thicknesses and a wide range of colors, it is made of 100% staple-spun meta-aramid filament, offering high resistance up to 370°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.
- Flame-retardant properties remain effective up to 370°C, even after washing.
- Special finishing processes ensure superior sewing performance.
- Excellent resistance to flame, heat and electric sparks.
- Tested and certified according to EN ISO 15025 and EN ISO 6941 flammability standards.

M-Aramid WR[®]

Areas of Use

- Flame-Retardant Safety Workwear
- Filters
- Safety Footwear
- Military Protective Clothing
- Flame-Retardant Embroidery Applications
- Thermal Insulation
- Protective Gloves
- Firefighter Apparel



Physical and Chemical Properties

- Self-extinguishing at 370°C: when removed from the heat source, flames extinguish immediately instead of spreading.
- Low UV resistance: prolonged exposure to sunlight may cause color fading and reduced tenacity.
- High resistance to lubricants and bleaches.
- Good abrasion resistance.

Product Options

DURAK Fire Safe M-Aramid WR offers a wide range of colors in a variety of 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



M-Aramid WR[®]

Thickness and Strength Chart

Tkt No.	Nominal Tex	Strength CN	Elongation %	Needle Size (Nm)
40	70	2200	20 - 29	100 - 120
70	40	1600	20 - 25	80 - 90
100	26	730	15 - 22	60 - 80

