



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

M-Aramid WR®

Durak Fire Safe M-Aramid WR® is a sewing thread that has a permanent flame retardant and water repellent features. DURAK Fire safe M-Aramid WR®, which is presented in various thickness alternatives and wide range of color options, is a product made of 100% staple spun meta aramid filament that provides high resistant up to 370 °C. It is an excellent choice for outdoor products, shoes and accessories as it has a specially formulated surface that provides a high water resistance. It prevents water from being absorbed by the thread thanks to PFC-free water-preventing coating material. This coating prevents the water from flowing through the stitch holes when the correct sewing tension is used.



Product Properties

- Water passing through the pinhole is prevented when the correct sewing tension is used.
- Flame retardant feature up to 370°C is not lost even after washing.
- Superior performance in sewing machines thanks to its special finishing processes.
- Excellent resistance against 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

- Soluble at 370°C, when it's removed from the heat source, flames will extinguish immediately instead of spreading.
- UV resistance is quite low. It suffers loss of color and tenacity when exposed to sunlight for a long time.
- High resistance to lubricants and bleaches.
- Good abrasion resistance.
- Meta Aramid should not be exposed to UV rays.

Presentation

DURAK Fire Safe M-Aramid WR offers a wide range of colors in a variety of meters size 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
Friction fastness	ISO 105 X12	Min. 3



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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

