

SAFETY IS NO ACCIDENT

Litia high performance yarns
with ARAMID fibres

- comfortable and very pleasing smooth-surfaced fabrics
- a wide range of applications: personal protective clothing for workers, firefighters and other first responders such as police and military, industrial and other
- outstanding strength-to-weight properties with para-aramid fibres for stability in a variety of high-temperature applications

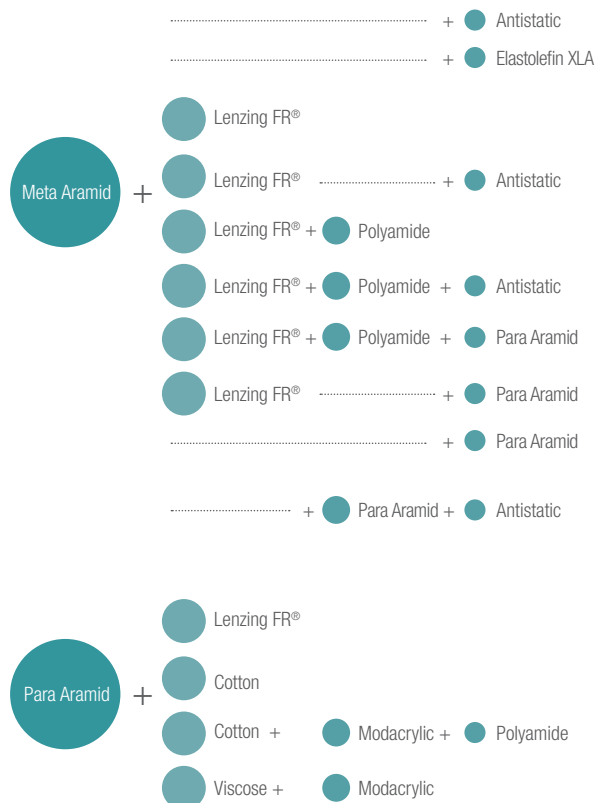
Litia
tech

Technical yarns for industry & personal protection

Litia high performance yarns with aramid fibres

Litia aramid yarns:

The composition of our yarns is driven by customer requirements as well as specific technical standards. The count and blend both depend on the final construction of the product and the level of protection required against specific hazards. In this way, a variety of combinations, levels of functionality and comfort requirements can be achieved in order to ensure optimal performance.



Aramid fibres are high performance fibres with excellent heat resistance and a high tenacity to elongation ratio at breaking point.

In terms of their chemical structure, aramid fibres are divided into two types:

- meta-aramid and
- para-aramid

Meta-aramid

Meta-aramid fibre is a smooth-surfaced fibre with an almost circular cross-section. This shape, as well as its modulus, makes it comfortable and very pleasant to the touch. A non-flammable fibre, it has very high resistance to abrasion, low thermal conductivity and excellent levels of chemical resistance.

Meta-aramid fibres for technical applications have higher crystallinity and strength than standard meta-aramid fibres for personal protective clothing. They are delivered raw (non-dyeable and not dope dyed) and are often used as a 100% meta-aramid yarn for filtration and other industrial applications.

Meta-aramid fibres for Personal Protective Clothing (PPC) are used in many areas for the purpose of avoiding and minimising the hazards of flash fire, arc and intense flame.

Meta-aramid fibers are available as:

- dope dyed/solution-dyed fibre
- dyeable meta-aramid fibres

Para-aramid

Para-aramid fibres provide outstanding strength-to-weight properties: a high tenacity to elongation ratio at breaking point. Not only do they possess excellent strength and a high modulus, but they also have excellent levels of resistance to impact and heat.

Para-aramids will not burn, melt or drip and are char-forming, which means they maintain their strength after thermal exposure.

Para-aramid applications in staple spun yarns can be used in a wide range of protective products that are stronger, lighter, and more resistant. With its unique combination of mechanical properties, chemical resistance, excellent durability and thermal stability, the percentage of para-aramid fibres in the blend can transform a normal product into something extraordinary.

Para-aramid fibres are delivered as:

- raw yellow coloured fibres
- mass-dyed fibres

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