

TECH INSIGHT

IBQ-FXP-005

REINFORCEMENT PANELS

YOU DO. WE PROTECT.


TEXTILES PROTECTING LIVES

THE TECHNOLOGY INSIDE IBQ-FXP-005

REINFORCEMENT PANELS EXTENDING THE LIFE OF FR GARMENTS PERFORMANCE

When we think about flame resistant (FR) garments, our attention naturally goes to certifications, inherent flame protection, or arc ratings. However, another factor has a major impact on safety, sustainability, and total cost of ownership: garment durability. In reality, most FR garments are not replaced because they lose their flame resistant properties, but because they wear out. High stress areas such as knees, elbows, cuffs, shoulders, and pockets are constantly exposed to abrasion, friction, and mechanical wear. Once these zones fail, the entire garment often needs to be replaced, even though the rest of the fabric is still fully functional.

That's where reinforcement panels make all the difference.

PROTECT THE GARMENT. EXTEND ITS LIFE.

A well designed reinforcement panel acts as a shield for the areas that suffer the greatest mechanical damage. By significantly increasing abrasion resistance, these panels delay wear, reduce repairs, and extend the service life of the garment.

For companies, this means:

- Fewer garment replacements
- Lower maintenance costs
- Reduced environmental impact
- More reliable protection throughout the garment's lifespan
- Enhanced worker protection

PROTECTION MUST BE CONSISTENT

When reinforcing an FR garment, durability alone is not enough. Reinforcement panels must also provide the same flame resistant performance as the garment itself. Using a non FR reinforcement fabric can create a weak point in the PPE, compromising its overall protective performance and potentially affecting certification compliance. That's why FR reinforcement fabrics must combine outstanding mechanical durability with inherent flame resistance, ensuring consistent protection across the entire garment, including its most demanding wear zones.



IBQ-FXP-005

A great example of an FR reinforcement fabric is IBQ-FXP-005, developed specifically to protect the areas of a garment exposed to the highest levels of wear. It combines inherent flame resistance, Cordura® reinforced abrasion resistance, antistatic protection, and durable water repellency in a single 250 gsm fabric, making it ideal for demanding applications such as welding, utilities, emergency response, and industrial workwear. By delivering outstanding mechanical durability while maintaining full compatibility with certified FR garments, IBQ-FXP-005 eliminates the need to choose between protection and durability.

DURABILITY WHERE IT MATTERS MOST.

Sometimes, the longest lasting FR garments are not those made with heavier fabrics, but those reinforced where it matters most. Extending the life of protective clothing is about more than reducing replacement costs. It means improving sustainability, maintaining certified protection throughout the garment's lifespan, and ensuring workers can rely on their PPE day after day. IBQ-FXP-005 demonstrates that the most effective protection starts with smart reinforcement.

REINFORCE THE WEAR. PRESERVE THE PROTECTION.