

Bruck
Textiles



BRUCK ENDURANCE™

Lifetime FR - Anti-static - Comfort - Protection



Bruck Textiles

www.brucktextiles.com.au

BRUCK ENDURANCE™ for safety & protection

Investments and innovation in the development of performance textiles solutions by Bruck gives you the assurance and capability to satisfy your protective clothing and equipment needs. Our focus is on the safety of those engaged in work with exposure to threats from radiant and convective heat, arc flash, molten metal splash and chemical splash and solutions using BRUCK specialised materials.

BRUCK Safety & Protective fabrics division is dedicated to assisting you to meet your safety objectives. The BRUCK range of textiles and laminates are designed to protect and deliver excellent levels of comfort to the wearer, our understanding of each material's capability means you achieve the outcomes you're looking for.

Bruck and the Proban® Fire Retardant Process

BRUCK is Australasia's only licensed manufacturer of Proban® flame protective fabrics. The Proban® process from Rhodia has been perfected over 50 years to give cotton and cotton rich fabrics permanent and reliable flame retardant properties.

Proban® treated fabrics are durable and proven through long term use in a variety of environments. The BRUCK range of Proban® fabrics are suitable for protective clothing and equipment used for in wildland firefighting, defence and oil and gas industries – anywhere a permanent flame retardant solution is a necessity.



| Fabric | Composition | Width [cm] | Weight [g/m ²] | Weave | Tensile Strength ISO 13934-1 [N] | Tear Strength ISO 4674-1 Method B [N] |
|---------------------|------------------------------------|------------|----------------------------|-------|----------------------------------|---------------------------------------|
| BRUCK ENDURANCE™ LW | 88% Proban® Cotton 12% HT Nylon | 152 | 190 | Twill | warp > 570 weft > 600 | warp > 18 weft > 23 |
| BRUCK ENDURANCE™ MW | 88% Proban® Cotton 12% HT Nylon | 147 | 250 | Twill | warp > 840 weft > 600 | warp > 25 weft > 29 |
| BRUCK ENDURANCE™ HW | 88% Proban® Cotton 12% HT Nylon | 152 | 285 | Twill | warp > 840 weft > 840 | warp > 31 weft > 46 |

| Fabric | Arc Rating ATPV ASTM F 1959 [cal /cm ²] | Heat Attenuation Factor (HAF) ² ASTM F 1959 [%] | NFPA 70E Category |
|---------------------|---|--|-------------------|
| BRUCK ENDURANCE™ LW | 7.5 | 78.1 | 1 |
| BRUCK ENDURANCE™ MW | 10.2 | 74 | 2 |
| BRUCK ENDURANCE™ HW | 9.1 | 68.5 | 2 |

BRUCK ENDURANCE™ flame retardant performance:

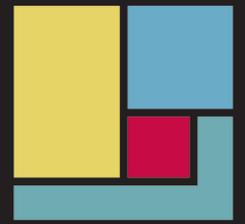
| | | |
|--|-----------------------|---|
| Flame Spread - Surface Ignition ¹ | ISO 15025 Procedure A | No hole formation No molten or flaming debris Average afterflame ≤ 2s Average afterglow ≤ 2s |
| Flame Spread - Edge ¹ | ISO 15025 Procedure B | Char length ≤ 100mm No molten or flaming debris Average afterflame ≤ 2s |

¹ After pretreatment according to ISO 6330:2000 Procedure 2A, E: 50 cycles.

² After pretreatment according to AATCC Test Method 135, Procedure 3 IV, A, iii. Washed three times followed by one dry.

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The BRUCK ENDURANCE™ fabric range builds on over 50 years of tried and tested Proban® durable flame retardant performance with a unique Cotton rich blend engineered with High Tenacity Nylon. The resulting fabric delivers garments with appreciable weight savings that add excellent resistance to mechanical damage.

This makes BRUCK ENDURANCE™ Proban® fabric ideal for protective performance against a range of workplace hazards (arc flash, flash fire, molten ferrous metal splash and exposure to welding) and an excellent choice for the riggers of wildland firefighting.

The Proban® process ensures fabrics are guaranteed for flame resistance for the life of the garment with the advantage of natural Cotton to enhance comfort and HT Nylon to improve abrasion performance and boost protection.

The fabric range has versatile garment applications such as shirting, coveralls, jackets and trousers.

BRUCK ENDURANCE™ Proban® fabric is available in a wide range of colours and weights with certified results against the requirements of NFPA 70E and AS/NZS 4824-2006.

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