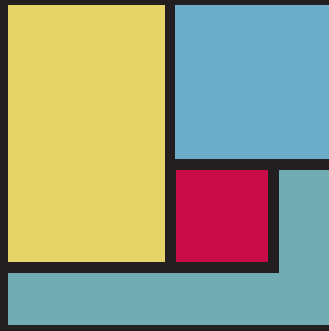




Bruck
Textiles



SENTINEL®

Performance - Comfort - Breathability - Durability



Bruck Textiles

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The MELBA SENTINEL® range minimum performance data:

Property	Method	Performance
Flame Spread -Surface Ignition ¹	ISO 15025 Procedure A	No hole formation No molten or flaming debris Average afterflame $\leq 2s$ Average afterglow $\leq 2s$
Flame Spread -Edge Ignition ¹	ISO 15025 Procedure B	No molten or flaming debris Average afterflame $\leq 2s$
Heat Transfer (Radiation)	ISO 6942 Method B @ 20 kW/m ²	$t_{24} \geq 11s$ TF $\leq 70\%$ $t_{24} - t_{12} \geq 4s$
Heat Resistance	ISO 17493 5 minutes @ 260°C	No melt No drip No ignition Shrinkage $\leq 10\%$
Thermal Resistance	ISO 11092	$\leq 0.055 \text{ m}^2 \text{ K/W}$
Water Vapour Resistance	ISO 11092	$\leq 10 \text{ m}^2 \text{ Pa/W}$
Dimensional Change	ISO 5077	$\leq 3\%$ warp and weft
MELBA SENTINEL® fabrics meet the requirements of AS/NZS 4824-2006 Results according to ISO 16073 available 2011.		

¹After pretreatment according to ISO 6330:2000 Procedure 2A, E: 5 cycles.

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Nomex® is a registered trademark of E. I. du Pont de Nemours and Company or its affiliates. Lenzing FR® is a registered trademark of Lenzing AG.

Fabric	Composition	Width [cm]	Weight [g/m ²]	Weave	Tensile Strength ISO 13934-1 [N]	Tear Strength ISO 4674-1 Method B [N]	Abrasion Resistance ISO 12947-2 @ 12kPa
MELBA SENTINEL® 165	50% Nomex® 50% Lenzing FR®	147	165	Plain	warp > 570 weft > 460	warp > 20 weft > 20	> 40, 000
MELBA SENTINEL® 200	70% Nomex® 30% Lenzing FR®	147	200	Plain	warp > 830 weft > 580	warp > 25 weft > 20	> 45, 000
MELBA SENTINEL® 220P	70% Nomex® 30% Lenzing FR®	147	220	Plain	warp > 1000 weft > 650	warp > 30 weft > 25	> 50, 000
MELBA SENTINEL® 220R	70% Nomex® 30% Lenzing FR®	147	220	Twill Ripstop	warp > 1000 weft > 650	warp > 40 weft > 35	> 50, 000



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MELBA SENTINEL® is the standard for comfort and performance in the protective fabrics market. BRUCK have taken the durable protection of Nomex® Comfort fibres and combined them with the softness, comfort and absorbency of Lenzing FR® Viscose. This unique intimate blend delivers inherent and permanent flame retardant performance, anti-static qualities and exceptional moisture wicking - making MELBA SENTINEL® fabric the right choice for next-to-skin garments.

Benefits at a glance:

- Excellent comfort levels - soft, light, highly breathable and highly moisture wicking
- Excellent durability - strong and tough - a product that delivers exceptional value for money
- Inherently flame retardant - a feature that can not wash out or wear out
- Permanently anti-static - no matter what conditions
- Superior thermal protection - excellent heat transfer resistance for weight
- Wildland firefighting certified - full test reports available according AS/NZS 4824-2006
- Exceptional performance in colour fastness - colour that's built in by the DuPont Nomex® producer colour process
- High daytime visibility - colours that conform to AS/NZS 1906.4

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