

Bruck
Textiles

SENTINEL®

Performance - Comfort - Breathability - Durability



Bruck Textiles

www.brucktextiles.com.au

The 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 $\leq 2s$ Afterglow shall not spread Char length $\leq 100\text{ mm}$
Heat Transfer ¹ (Radiation)	ISO 6942 Method B @ 20 kW/m ²	$t_{24} \geq 11s$ TF $\leq 70\%$ $t_{24} - t_{12} \geq 4s$
Heat Resistance ¹	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 ¹	ISO 5077	$\leq 3\%$ warp and weft
SENTINEL® fabrics meet the requirements of AS/NZS 4824 Results available for ISO 15384, ISO 16073 and NFPA 1977.		

¹After pretreatment according to ISO 6330:2000 Wash Procedure 2A, Dry Procedure E: Five Cleaning 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.

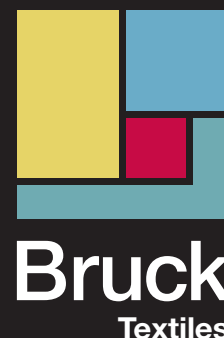
Fabric	Composition	Weight [g/m ²]	Weave	Tensile Strength ISO 13934-1 [N]	Tear Strength ISO 4674-1 Method B [N]	Abrasion Resistance ISO 12947-2 @ 12 kPa
SENTINEL® 165	50% Nomex® 50% Lenzing™ FR	165	Plain	warp > 550 weft > 470	warp > 25 weft > 20	> 30,000
SENTINEL® 200	70% Nomex® 30% Lenzing™ FR	200	Plain	warp > 840 weft > 620	warp > 45 weft > 40	> 45,000
SENTINEL® 220P	70% Nomex® 30% Lenzing™ FR	220	Plain	warp > 930 weft > 650	warp > 45 weft > 30	> 50,000

*Please enquire about new colours and anti-static options.



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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 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 - delivers exceptional value for money
- Inherently flame retardant – a feature that can not wash out or wear out
- Superior thermal protection – excellent heat transfer resistance for weight
- Wildland firefighting certified - full test reports available according AS/NZS 4824 and NFPA 1977
- Exceptional performance in colour fastness – colour that's built in by the DuPont™ Nomex® producer colour process

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