

FirePro Plus Foil-Faced Silica Welding Cloth

FirePro Plus Technical Data Sheet - HS650AR/920

FirePro Plus Foil-Faced Silica Welding Cloth

Vermiculite Treated Silica Cloth - 96% Silica Content - Aluminium Foil One Side

Product code: HS650AR/920

Finished Fabric	Units	Value	Tolerance
Weight	g/m2	700	±10%
Thickness	mm	0.7	±5%
Useable width (standard)	mm	920	±5%
Roll length (standard)	m	50	
Maximum operating temp. (see fire safety table)	°C	150	
Colour		Golden fibres one side, silver foil other side	

Base fabric construction: 600 g/m2 (±10%), 8H satin weave, warp 19/cm (±5%), weft 14/cm (±5%), yarn count SY9 136 1x3 (warp & weft).

Tensile strength: Warp >4000 N/5cm (±10%), Weft >2000 N/5cm (±10%).

Treatment/coating: 20 g/m2 (±10%) vermiculite treatment both sides; foil + adhesive layer 80 g/m2 (±10%), aluminium foil laminated to one face.

Comments: Base fabric withstands 1000°C unstressed, melting point >1600°C. The stated maximum operating temperature (150°C) is governed by the laminating adhesive, which begins to thermally degrade at that point and may allow the foil to delaminate - vibration and movement influence how quickly this occurs. Shrinkage <10% when tested at 900°C for 4 hours.

Fire safety summary

Parameter	Value	Notes
Base silica fibre (96% silica)	Withstands 1000°C unstressed; melting point >1600°C	Inherently non-flammable mineral fibre

Finished product max operating temp	150°C	Limited by the foil-laminating adhesive, not the base cloth
Delamination risk	Possible above 150°C, worsened by vibration/movement	Foil may separate from cloth once adhesive degrades
Shrinkage	<10% at 900°C for 4 hours	Tested on base fabric
Fire classification	Not tested/stated	No EN 13501-1 or equivalent classification held for this product

All figures above are reproduced from the underlying textile manufacturer's technical data and are guides only. Tolerances apply as stated. If any value is of critical importance to your application, we strongly recommend independent testing. Test methods mentioned are guides only; actual methods may differ slightly in practice. Suitability of the product for any specific application is at the discretion of the user.

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