

Material Data Sheet

Silica Glass 1150gsm

Elliotts Silica Glass is made from a silicon dioxide fibre. These are manufactured by chemically leaching continuous filament fibres made from borosilicate E Glass (CAS-65997-17-3). A process which results in the production of hydrated amorphous silica. The filament diameters are uniform, size approx 8 micron and are therefore above the maximum size considered to be respirable (approx 3 micron). They will not sub-divide into fibrils of smaller diameter. The fibres contain small amounts of a hydro-carbon surface dressing (<2%). The fabric is coated with a non hazardous vermiculite compound.

Fabric Specifications	
Identification reference	113100
Description	High Silica fabric
Weave	8-H Satin
Finish	Vermiculite, tapered edge
Roll length (metre)	50
Roll width (mm)	920

Technical Data	
ENDS / DM	50
PICKS / DM	44
Weight (g/m ²)	1150
Thickness (mm)	1.3
Silica content	96
Tensile strength	
Warp (N/cm)	3050
Weft (N/cm)	2598
Melting temperature	1700°C
Service temperature	Up to 1100°C

Performance Data - 11611:2015						
The test methods is ISO 15025, Procedure A (Flame application time 10s)	Lengthwise			Widthwise		
	1	2	3	4	5	6
Afterflame time (s)	0	0	0	0	0	0
Afterglow time (s)	0	0	0	0	0	0
Flaming or molten debris (Yes or No)	No	No	No	No	No	No
Hole formation (Yes or No)	No	No	No	No	No	No
The lowest boundary of any flame reach the upper or either vertical edge (Yes or No)	No	No	No	No	No	No

Conclusion: Pass

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Limited flame spread performance requirements, ISO 15025, Procedure A (code letter A1)	
Properties	Requirement
Flame spread	No specimen shall permit any part of the lowest boundary of any flame to reach the upper or either vertical edge.
Flaming debris	No specimen shall give flaming or molten debris
Hole formation	No specimen shall give hole formation of 5mm or greater in any direction, except for an interlining that is used for specific protection other than heat and flame protection
Afterglow	Afterglow time shall be ≤2s. A glowing inside the charred area is defined in EN ISO 15025 as afterglow without combustion and for the purpose of this clause is not regarded as afterglow.
Afterflame	Afterflame time shall be ≤2s.