

PRODUCT BULLETIN – SILICA MESH – LOOM STATE – FILTRATION FABRIC

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High Silica Glass filtration fabric.

Silica mesh/nettings are made from high SiO₂ -content glass fiber yarns with a service temperature of up to 1832°F, woven in a 'Leno' or 'Mock Leno' style to achieve the characteristic openness of the mesh.

Our silica mesh holes range from 1/25" to <1/8" mm.

Additional heat treatments are frequently applied to mitigate shrinkage of the silica mesh during the application.

Key properties are exceptional heat resistance, ability to maintain its integrity at temperatures of up to 1,832°F; and this over prolonged periods.

Our filtration fabrics are Non-toxic, with low thermal conductivity and inertness to most chemicals. They are resistant to organic and mineral acids (excluding hydrofluoric and phosphoric), weak alkalis, water and high-pressure steam.

Primary application is for filtering molten, non-ferrous metals in foundries as well as gas filtration.

Various treatments available:

- Pre-shrunk
- Pre-shrunk with reinforcement sizing

Standard Hole Sizes:

- 1.25"
- 1/16"
- 1/12"

Standard roll lengths:

50 linyd

APPLICATONS:

The main two applications are for filtration of non-ferrous metals in foundries and gas filtration.

ADDITIONAL AVAILABLE FEATURES:

- Heat treatment (pre-shrinking 0 -8%
- Weave lock (for easy cutting & handling)
- Special Sizing based finish for tensile strength improvement

SHRINKAGE:

- Non-heat-treated materials up <12%
- Heat-treated materials, depending on final the application <8%

PRODUCT BULLETIN PERTAINS TO FOLLOWING SKUs:

16497, 16498, 16499, 16500, 16501, 16502, 16503, 16504

SPECIFICATIONS:

Industry standard tolerances: +/- 10%

Reference	US-Style	g/m(2)	oz/syd	Picks/cm Warp	Picks/inch Warp	Picks/cm Weft	Picks/inch Weft	Tensile Strength N/5cm warp	Tensile Strength lbf/inch warp	Tensile Strength N/5cm weft	Tensile Strength lbf/inch weft	Width	Finish	Weave
16497	Silica Open Mesh, 17.3 oz, warp 25.4 p/in, weft 24.4p/in, mock leno, feathered edge, 40"	585	17	10.2	25.4	9.6	24.4	1500	171	2000	228	40	Loom State	Mock Leno
16498	Silica Open Mesh, 19.5 oz, warp 21.3 p/in, weft 20.6p/in, mock leno, feathered edge, 40"	660	20	8.4	21.3	8.1	20.6	1500	171	2000	228	40	Loom State	Mock Leno
16499	Silica Open Mesh, 16.8 oz, warp 18.8 p/in, weft 17.3p/in, mock leno, feathered edge, 40"	570	17	7.4	18.8	6.8	17.3	1500	171	2000	228	40	Loom State	Mock Leno
16500	Silica Open Mesh, 7.7 oz, warp 17.8 p/in, weft 7.6p/in, leno, feathered edge, 40"	260	7.7	7	17.8	3	7.6	1000	114	1300	148	40	Loom State	Leno
16501	Silica Open Mesh, pre-shrunk 16.5 oz, warp 27.4 p/in, weft 24.9 p/in, mock leno, 40", feathered edge	560	17	10.8	27.4	9.8	24.9	800	91.4	500	57.1	40	Loom State	Mock Leno
16502	Silica Open Mesh, pre-shrunk 19.5 oz, warp 21.8 p/in, weft 19.8 p/in, mock leno, 40", Treated 1G, FE	660	20	8.6	21.8	8	19.8	2500	228.4	2500	228.4	40	Loom State	Mock Leno
16503	Silica Open Mesh, pre-shrunk 19.2 oz, warp 22.1 p/in, weft 20.8 p/in, mock leno, 40", feathered edge	650	19	8.7	22.1	8.2	20.8	1800	205.6	2500	228.4	40	Loom State	Mock Leno
16504	Silica Open Mesh, pre-shrunk 7.4 oz, warp 18.8 p/in, weft 7.6 p/in, leno, 40", Treated 1G	250	7.4	7.4	18.8	3	7.6	800	91.4	1200	137	40	Loom State	Leno

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