

## Kao-Tex™ Textile 1000 Cloth



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### Product Description

Kao-Tex Textile 1000 cloths are woven from a highly textured continuous filament yarn. A unique treatment is applied to the cloths that preserves texturization in fabrication use. The cloths are produced from inorganic materials that do not produce hazardous offgassing. The Kao-Tex Textile 1000 Cloths are especially designed and developed for temperatures up to 1000°F (538°C).

Kao-Tex Textile 1000 cloths style 400 and 600 are lighter weight fabrics, thinner offering a more economical basic insulation.

Kao-Tex Textile 1000 Cloths styles 800, 1000, 1200, 1350, 1400 and 2200 are a heavier weight fabric which offer a more superior insulation and durability.

### Availability

	Weight, oz/yd <sup>2</sup>	Thickness, in	Width, in.
Style 400	400/12	0.030	40, 60
Style 600	600/18	0.035	40, 60
Al. Foil	600/18	0.030	48, 60
Style 800	800/24	0.060	40, 60
Al. Foil	800/30	0.065	40
w/wire	800/24	0.050	48
Style 1000	1000/30	0.065	40, 60
Style 1200	1200/35	0.080	40, 60
w/wire	1200/35	0.080	40, 60
Style 1350	1350/40	0.085	40, 60
Style 1400, wire	1400/44	0.090	60
Style 2200	2200/64	0.125	40, 60

### Features

- Superior thermal and acoustical properties
- Excellent fabrication and handling properties

### Applications

- Welding, Fire, Oven and Drop curtains
- Stress Relieving blankets
- Fire and Heat barriers
- Removable Insulation
- Lagging
- Fabric Expansion joints
- Gasketing and Sealing
- Gloves and Mittens

### Physical Properties

	Single Filament
Fiber length	continuous
Specific gravity	2.54
Moisture absorbency, % (surface) up to	0.3
Creep	none
Dielectric strength, volts/mil.	498
Dielectric constant	5.9 to 6.4
Continuous use limit, up to °F (°C)	1000 (538°C)
Melting point, °F (°C)	3000 (1649)

### Chemical Analysis

Alumina, Al <sub>2</sub> O <sub>3</sub>	10 - 12
Silica, SiO <sub>2</sub>	52 - 60
Boron oxide, B <sub>2</sub> O <sub>3</sub>	8 - 13
Calcium oxide, CaO	16 - 25
Magnesium oxide, MgO	0 - 6
Alkalies, as, Na <sub>2</sub> O, K <sub>2</sub> O	0 - 1
Other	30 - 35

### Chemical Properties

Kao-Tex Textile 1000 Cloths possess excellent resistance to chemical attack. Exceptions include hydrofluoric and corrosive elements at elevated temperatures. Kao-Tex Textiles 1000 accept a variety of treatments to suit specific applications. They can be coated with S.B.R., N.B.R., Hypalon\*, Viton\* and Teflon\*