

## Kao-Tex™ Textile 2200, 2500 Threads, Tapes, Sleevings



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### Product Description

Kao-Tex styles 2200 and 2500 threads, tapes, ropes, and sleevings are woven from continuous-filament fibers. These fibers are a polycrystalline metal oxide that provides strength and flexibility far superior to glass, asbestos, quartz or amorphous silica textiles at or near their service temperatures.

Specially designed fibers provide low thermal conductivity with excellent thermal shock resistance to continuous temperatures up to 2500°F (1371°C). These ceramic fiber textiles have superior strength, good abrasion resistance and integrity, allowing them to withstand combined temperatures while retaining dimensional stability.

Fabricated with other Thermal Ceramics fiber insulating products enables custom-engineered thermal systems to customer specifications. Each can be designed for folding, wrapping, and generally conforming to a limitless variety of shapes and sizes.

### Treatments Available

- Heat Cleaning is a controlled process that is used to remove any organic coatings from the surface of fibers.
- Heat Treating is a higher temperature process which changes the crystal structure of the fiber. This treatment improves the chemical resistance, anneals stress from the fiber, and increases stiffness of the material. Certificates of Conformance are available upon request.

### Features

- High temperature use up to 2500°F (1371°C)
- Excellent for use in fabrication
- Excellent thermal and mechanical properties
- Electrical properties
- Abrasive resistance
- Non-hygroscopic
- Asbestos free
- Low shrinkage
- Fire and flame resistant

### Applications

- Tube seals
- Furnace zone dividers
- Furnace curtains
- Gaskets and seals
- Expansion joints
- Tube wraps
- Filtration media
- Splash guards

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### Physical Properties and Availability

Threads						
Style	Diameter in (mm)	Yield yd/lb (/kg)	Breaking Strength lb (kg)	Knot Strength lb (kg)	Heat Cleaned Breaking Strength lb (kg)	Heat Cleaned Knot Strength lb (kg)
Kao-Tex 2200						
AT-21	0.019 (0.48)	1570 (3160)	27 (8.2)	5 (2.3)	10 (4.5)	3 (1.4)
AT-30	0.028 (0.71)	810 (1630)	47 (21.3)	14 (6.4)	15 (6.8)	8 (3.6)
Kao-Tex 2500						
BT-30	0.029 (0.74)	710 (1430)	44 (20)	6 (2.7)	25 (11.3)	6 (2.7)
Chordage						
	Diameter in (mm)	Yield yd/lb (/kg)				
Kao-Tex 2200						
⅜	0.024 (0.6)	780 (355)				
¾	0.038 (0.95)	390 (177)				
⅝	0.052 (1.3)	230 (105)				
Tapes						
	Width in (mm)	Weight oz/yd (g/m)	Thickness in (mm)	Breaking Strength lb/in (kg/cm)	Weave	
Kao-Tex 2200						
AP-18	1 (25)	0.30 (28)	0.018 (0.45)	162 (74)	plain	
	1.5 (37.5)	0.45 (13)	0.018 (0.45)	162 (74)	plain	
	2 (50)	0.60 (17)	0.018 (0.45)	200 (91)	plain	
Pressure sensitive backing	1.18 (29.5)	0.78 (22)	0.028 (0.7)	135 (61)	flat braid	
	1.57 (39.25)	0.33 (9)	0.019 (0.475)	182 (83)	crowfoot satin	
Kao-Tex 2500						
BP-18	1 (25)	0.33 (9)	0.019 (0.475)	182 (83)	plain	
	1.5 (37.5)	0.50 (14)	0.019 (0.045)	182 (83)	plain	
Braided Sleevings						
	Inside Diameter in (mm)	Wall Thickness in (mm)	Length/ Unit Weight yd/lb (m/kg)			
Kao-Tex 2200						
AS-40	⅙ (1.56)	0.027 (0.675)	84 (76.8)			
	⅛ (3.125)	0.036 (0.9)	39 (35.6)			
	¼ (6.25)	0.035 (0.875)	25 (22.8)			
	½ (12.5)	0.039 (0.975)	12 (11)			
	¾ (18.75)	0.038 (0.95)	8.5 (7.7)			
	1 (25)	0.032 (0.8)	7.5 (6.8)			
	1½ (37.5)	0.031 (0.775)	5.2 (4.75)			
	2 (50)	0.035 (0.875)	3.4 (3.1)			
	2½ (62.5)	0.036 (1.56)	2.9 (2.65)			
Kao-Tex 2500						
BS-40	⅛ (3.125)	0.039 (1.56)	32 (29.2)			
	¼ (6.25)	0.037 (1.56)	22 (20.1)			
	½ (12.5)	0.041 (1.56)	11 (10)			