

## TaoFibre® Ceramic Fiber Paper

TaoFibre [ceramic fiber paper](#) consists primarily of high purity alumina-silicate fiber and is made through a fiber washing process. This process controls the content of unfiberized shot to a very minimal level within the paper. TaoFibre paper features light weight, structure uniformity, and low thermal conductivity, which serve as a perfect solution for high temperature insulation, chemical corrosion resistance, and thermal shock resistance. This product can be used in various types of refractory and sealing applications.



### Features

- Easy to cut, wrap or form
- Low thermal conductivity
- Temperature stability
- Low heat storage
- Resilient
- Light weight
- Thermal shock resistant
- High heat reflectance
- Good dielectric strength
- Excellent corrosion resistance

### Classification Temperature:

Standard and Premium Grade: 2300°F

Zirconia Grade: 2600°F

Polycrystalline Grade: 3000°F

### Availability:

Standard Thickness: 1/32", 1/16", 1/8", 1/4" (will vary based on temperature rating)

Standard Widths: 24", 48"

Note: Custom fabrication available

### Typical Application

- Appliance heat seals
- Parting plane in refractory linings
- Combustion chamber liners
- Backup lining for metals troughs
- Hot top linings
- Thermal and electrical insulation
- Refractory backup insulation
- Oven door shock absorption medium
- Kiln car deck covering

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## Main Properties

Description	Standard	Premium	Zirconia	Polycrystalline
Classification Temp (°F)	2300		2600	3000
Working Temp (°F)	2012		2462	2800
Melting Point (°F)	3200		3300	3600
Color	White			
Density (lbs/ft <sup>3</sup> )	10-13			7-10
LOI	< 10%			
Break Strength (psi)	10-15			
Tensile Strength (psi)	75-90	30-40	75-90	25-40
<b>Chemical Composition (%)</b>				
Organic Content	< 5%			
Al <sub>2</sub> O <sub>3</sub>	45-46	47-49	39-40	95
SiO <sub>2</sub>	51-52	50-52	42-43	5
ZrO <sub>2</sub>	--		15-17	--
Fe <sub>2</sub> O <sub>3</sub>	< 1.8	0.2	0.2	Trace
Na <sub>2</sub> O+K <sub>2</sub> O	≤ 0.5	0.2	0.2	Trace
Latex	≤ 7			--
<b>Thermal Conductivity W/m·K (Btu in./hr./ft<sup>2</sup> °F)</b>				
600°C (1112°F)	0.08 (0.55)			0.07(0.45)
800°C (1472°F)	0.12 (0.80)	0.11 (0.75)	0.11 (0.76)	0.12(0.82)
1000°C (1832°F)	0.18 (1.25)	0.16 (1.15)	0.17 (1.18)	0.18(1.22)
Note: Test data shown are average results of tests conducted under standard procedures and are subject to variation. Results should not be used for specific purposes.				