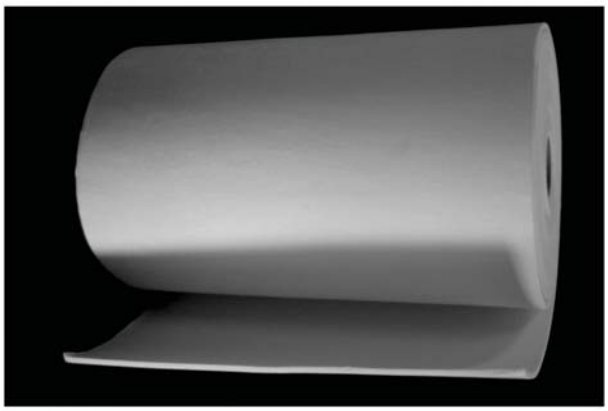
CERAMSOURCE
Solutions for Industrial Heat



## 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. TaoFibre ceramic fiber paper is available in 3 grades with a variety of thicknesses, widths, and temperature ratings:

**Standard Grade:** continuous use up to 2012 °F
**Premium Grade:** continuous use up to 2012 °F
**Zirconium Grade:** continuous use up to 2462 °F

**Standard Thickness:** 1/32", 1/16", 1/8", 1/4"
**Standard Widths:** 24" and 48"
**Standard Packaging:** Approximately 25 lb/roll (special packaging is available per request).

### Features/Advantages

- 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

### Typical Applications

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

Turn back for more specific product information

Tel: 732-257-5002
Fax: 732-257-5003
Email: info@ceramsource.com
Website: www.ceramsource.com

Mailing Address:
PO Box 6026, East Brunswick, NJ 08816
Physical Address:
25 Kimberly Road, Unit A, East Brunswick, NJ 08816

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TaoFibre Ceramic Paper
Product Information

# TaoFibre Ceramic Fiber Paper

## Typical Physical Properties

| | Standard Grade | Premium Grade | Zirconium Grade |
|---|---|---|---|
| Color | White | White | White |
| Maximum Use Limit | 2300 °F | 2300 °F | 2552 °F |
| Continuous Use Limit | 2012 °F | 2012 °F | 2462 °F |
| Density (pcf) | 10 - 13 | 10 - 13 | 10 - 13 |
| Organic Content (%) | <5% | < 5% | < 5% |
| Tensile Strength (psi) | 75 - 90 | 30 - 40 | 75 - 90 |
| Break Strength (psi) | 10 - 15 | 10 - 15 | 10 - 15 |
| Thermal Conductivity W/mk (Btu in./hr./ft²) | | | |
| @ 600 °C (1112 °F) | 0.08 (0.55) | 0.08 (0.55) | 0.08 (0.55) |
| @ 800 °C (1472 °F) | 0.12 (0.80) | 0.11 (0.75) | 0.11 (0.76) |
| @ 1000 °C (1832 °F) | 0.18 (1.25) | 0.16 (1.15) | 0.17 (1.18) |

## Typical Chemical Composition

| | Standard Grade | Premium Grade | Zirconium Grade |
|---|---|---|---|
| $Al_2O_3$ | 45-46% | 47-49% | 39-40% |
| $SiO_2$ | 51-52% | 50-52% | 42-43% |
| $ZrO_2$ | --- | --- | 15-17% |
| $Fe_2O_3$ | < 1.8% | 0.2% | 0.2% |
| $K_2O+Na_2O$ | ≤ 0.5% | 0.2% | 0.2% |
| LOI | < 10% | < 10% | < 10% |

Refer to the Material Safety Data Sheet (MSDS) for recommended work handling and product safety information.