

TaoFibre® Ceramic Fiber Blanket

CeramSource offers 2 standard grades of TaoFibre [ceramic fiber blankets](#), all of which are lightweight and thermally efficient, resulting in a material that possesses the advantages of low heat storage and complete resistance to thermal shock. Used in a variety of heat processing applications, these blankets are produced from high strength spun ceramic fiber and needled to provide exceptional handling strength. These blankets are completely inorganic and are available in a variety of densities, thicknesses, widths, and temperature ratings:



Features

- Excellent tensile strength
- Low thermal conductivity
- Temperature stability
- Low heat storage
- Resilient
- Light weight
- Thermal shock resistant
- High heat reflectance
- Good dielectric strength
- Excellent corrosion resistance

Typical Application

- Furnace repair
- Furnace, kiln, and boiler linings
- Furnace door linings and seals
- Reusable insulation for steam and gas turbines
- Furnace and kiln insulation
- Primary reformer heater insulation
- Expansion joint seals
- Glass furnace crown insulation
- Field steam generator lining
- Nuclear insulation applications
- Thermal reactor insulation
- Flexible high temperature pipe insulation
- Investment casting mold wrapping
- Removable insulating blankets for stress relieving welds
- Pressure and cryogenic vessel fire protection
- Soaking pit seals
- Annealing cover seals
- High temperature filtration
- Incineration equipment and stack linings

Classification Temperature:

Standard Grade: 2300°F

Zirconia Grade: 2600°F

Availability:

Standard Thickness: 1/2", 1", 1-1/2", 2"

Standard Densities: 4, 6, 8PCF

Standard Widths: 24", 48"

www.ceramsource.com

email: sales@ceramsource.com

Phone: (732)257-5002

Note: Custom fabrication available

Main Properties

Description	High Purity	Zirconia
Classification Temp (°F)	2300	2600
Working Temp (°F)	2012	2462
Melting Point (°F)	3200	3300
Color	White	
Average Fiber Diameter (µm)	3-4.5	
Average Tensile Strength (psi)		
4 PCF	5.075	
6 PCF	7.250	
8 PCF	11.60	
Rate of Linear Shrinkage		
24 hrs @ 1832°F	2%	
24 hrs @ 2012°F	3%	
24 hrs @ 2462°F		3%
Chemical Composition (%)		
Al ₂ O ₃	44	39-40
SiO ₂	51-52	38-45
ZrO ₂	--	15-17
Fe ₂ O ₃	< 1.2	< 1.2
Na ₂ O+K ₂ O	≤ 0.5	≤ 0.5
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.		