

TaoFibre® Ceramic Board

CeramSource we are proud to offer a series of TaoFibre® high temperature ceramic insulation products.

Our [ceramic fiber board](#) is produced through a wet forming process of ceramic fiber and binders. TaoFibre® ceramic fiber board features the following properties.



Features

- High temperature stability
- Low thermal conductivity
- Resistance to oxidation and reduction
- Excellent resistance against thermal shock and chemical attack
- Good machinability

Typical Application

- Refractory linings
- Backup insulation
- Baffles and muffles
- Heat shields
- Combustion chambers
- Fire protection

Classification Temperature:

LD/HD: 2300°F

HZ: 2600°F

Availability:

Standard Thickness: 1/4", 1/2", 1", 1 1/2", 2"

Standard Densities: LD (16-18 lbs/ft³), HD (22-25 lbs/ft³)

Standard Sizes: 24" x 36", 24" x 48", 42" x 48" (1/2" only)

Note: Custom fabrication available

www.ceramsource.com

email: sales@ceramsource.com

Phone: (732)257-5002

Main Properties

Description	LD	HD	HZ
Classification Temp (°F)	2300		2600
Working Temp (°F)	2100		2462
Melting Point (°F)	3200		3300
Color	Off white		
Density Kg/m ³ (lbs/ft ³)	260-290 (16-18)	350-400 (22-25)	360-380 (20-22)
Chemical Composition (%)			
Al ₂ O ₃	47-49		39-40
SiO ₂	50-52		42-45
ZrO ₂	--		15-17
Fe ₂ O ₃	0.2		0.2
Na ₂ O+K ₂ O	0.2		0.2
Shrinkage (%) 24 Hrs at Temp °F	-3 (2012°F)		-3(2462°F)
LOI (% by Weight)	6-7%	6-7%	4-6%
Tensile Strength (Mpa)	0.5		
Thermal Conductivity W/m-K (Btu in./hr./ft² °F)			
400°C (752°F)	0.085 (.589)	0.95 (.659)	0.092 (.638)
800°C (1472°F)	0.132 (.915)	0.155 (1.07)	0.143 (.991)
1000°C (1832°F)	0.180 (1.25)	0.201 (1.39)	0.184 (1.28)
600°C (1112°F)	0.23	0.27	0.38