



## CERAMIC FIBER BLANKET

### DESCRIPTION

Protherm Ceramic Fiber (CF) blanket is manufactured from refractory ceramic fiber suitable for industrial applications to withstand temperatures of up to 2600° F and provide effective solutions to a wide spectrum of thermal management problems. Utilizing our proprietary high output spinning techniques, these products offer superior insulating performance, flexibility and resilience and are available in a variety of density and thickness combinations. The blanket is a flexible, light-weight needled blanket which is used in a wide range of applications including refractory backing linings, thermal insulation and metal transfer.

### CLASSIFICATIONS

Protherm STD CF Blanket  
Protherm HPS CF Blanket  
Protherm HTZ CF Blanket

### FEATURES

Excellent tensile strength  
Low shrinkage  
Excellent resiliency  
Low thermal conductivity  
Low heat storage  
Good sound absorption

### APPLICATIONS

Metallurgy  
Steel industry  
Ceramic  
Refining  
Power plant

### SPECIFICATIONS

½" X 24" X 600"  
1" X 24" X 300"  
1-½" X 24" X 200"  
2" X 24" X 150"



## TECHNICAL DATA SHEET

Classification	Protherm STD	Protherm HPS	Protherm HTZ
Classification Temperature	2300 ° F	2300 ° F	2600 ° F
Continuous Use Temperature	1860 ° F	2012 ° F	2462 ° F
Color	White	White	White
Density (lbs/ ft <sup>3</sup> )	6pcf/8pcf	6pcf/8pcf	6pcf/8pcf
Shrinkage on heating (%)	≤2.5 (1860° F x 24 hrs.)	≤2.5 (2012° F x 24 hrs.)	≤3.0 (2462° F x 24 hrs.)
Thermal Conductivity (W/m.K, 8#/ft <sup>3</sup> )			
932° F	≤0.09	≤0.09	≤0.10
Tensile Strength (Mpa)	≥0.06	≥0.07	≥0.07
Shot content (>0.212mm)	13-15	12-14	10-13
Chemical Composition (%)			
Al <sub>2</sub> O <sub>3</sub>	43-45	44-46	34-36
Al <sub>2</sub> O <sub>3</sub> +SiO <sub>2</sub>	≥97	≥99	
Al <sub>2</sub> O <sub>3</sub> +SiO <sub>2</sub> +ZrO <sub>2</sub>			≥99
ZrO <sub>2</sub>			13-19

The technical data given in the product information are mean values and are subject to usual manufacturing variations. They are supplied as general technical information and are subject to change without further notice.