



## PROTHERM SOLUBLE FIBER BLANKET

### Characteristics

Amity Protherm Soluble Fiber Blanket provides excellent thermal stability and thermal shock resistance. This material is a high strength needed blanket made from materials offering superior performance in high temperature applications, has excellent chemical stability and demonstrates sturdy tensile strength.

Protherm Soluble Fiber Blanket provides low thermal conductivity, low heat storage and is available at 24 inches wide, offered in popular thicknesses of 1", 1.5" and 2" and in various lengths and densities.



### Mechanical Properties

Amity's soluble blanket is a preferred insulator relating to heat preservation of tubing and equipment in fields of metallurgy and petrochemical sealing. The characteristics of the soluble blanket are ideal when working with applications such as furnaces, ovens, steam/gas equipment, and high temperature protection. Specific areas can include the insulation of expanded gaps, furnace doors, linings and hot face refractory of a high-temperature furnace.

### Physical and Thermal Properties

Colour	White			
Density, Lbs/ft <sup>3</sup> (Kg/m <sup>3</sup> )	4, 6, 8 - ( 64, 96, 128 )			
Melting Point, °F (°C)	2300 - ( 1260 )			
Continuous Use Max, °F (°C)	1800 - ( 982 )			
Solubility ( PPM )	200			
Shrinkage on Heating ( % )	1000°C x 24h ≤ 1.0			
Tensile Strength, psi (kpa)	7.25 (50)			
Thermal Conductivity at Mean Temp ° F (° C) of:	BTU-in/hr-ft <sup>2</sup> -° F (Wm-K):			
	<b>4 lb</b> (64 kg/m <sup>3</sup> )	<b>6 lb</b> (96 kg/m <sup>3</sup> )	<b>8 lb</b> (128 kg/m <sup>3</sup> )	
	392° F (200° C)	0.42 (0.06)	0.35 (0.05)	0.35 (0.05)
	752° F (400° C)	0.76 (0.11)	0.62 (0.09)	0.56 (0.08)
	1,112° F (600° C)	1.18 (0.17)	0.90 (0.13)	0.83 (0.12)
	1,472° F (800° C)	1.94 (0.28)	1.39 (0.20)	1.18 (0.17)
1,832° F (1,000° C)	2.78 (0.40)	1.94 (0.28)	1.73 (0.25)	
Nominal Sheet Size Inches	1x24x300, 1.5x24x300, 2x24x150			
Quality Control	ISO14001-1996, ISO9001-2000			

Please contact your sales representative at Amity Insulation Group Inc. for further information if required.