



## SPECIALTY PRODUCTS & INSULATION CO.

### ***RIGIDFLEX®-1000 INSULATION***

#### **DESCRIPTION**

Rigidflex-1000 is a form of mineral fiber insulation providing the rigidity of a heavy density product. The insulation is adhered with the end grain perpendicular to the jacket. This provides a flexible product that is easily wrapped around pipes, tanks or vessels, while providing a high degree of rigidity and abuse resistance. These exceptional properties result from an assembly of conventional mineral fiber insulation and various facings. Rigidflex-1000 is furnished in roll form 36 inches wide, in various lengths and thicknesses, up to 4 inches thick.

#### **USES**

Rigidflex-1000 can be used on heated pipes, ducts and equipment to 1000°F. Because of its unique characteristics and physical form, it is ideally suited for use on all cylindrical shapes and can be used on flat surfaces as well. Typical applications include cylindrical high temperature duct systems, large piping of any size, groups of parallel pipes, breechings and flanged fittings. In addition to facilitating application, Rigidflex-1000 Insulation, since it fits any size cylinder, eliminates the need for stocking many large odd sized pipe coverings.

#### **ADVANTAGES**

*Good Compressive Strength* - Superior to other forms of mineral fiber insulation of equal and higher densities.

*Easy Application* - One piece construction. Only a knife is required to cut most intricate shapes.

*Minimal Stocking Problems* - Fits all surfaces. Flexibility permits close fit to all size pipe, duct and equipment, regardless of shape or contour.

*Permanent, Inorganic, Fire Safe* - Mineral fiber construction. UL rated components comply with the most stringent building codes.



#### **PERFORMANCE**

Service Temperature (max.)	1000°F
Jacket Temperature Limitation	150°F
In-service Shrinkage at 1000°F	0%
Water Vapor Absorption	Less than 1%
Compressive Strength (at 10% deformation)	125 lb.ft <sup>2</sup>
Shot Content	Less than 20%
Flame Spread	25*
Smoke Developed	50*

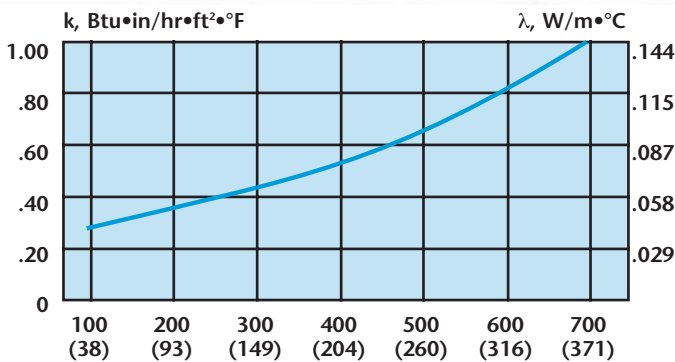
\*Depending on facing used.

## COMPLIANCE

ASTM C411	Maximum Service Temperature
ASTM C1136	Jacket Temperature Limitation
ASTM C356	In-Service Shrinkage at 1000°F
ASTM C1104	Water Vapor Sorption
ASTM C165	Compressive Strength
ASTM C1335	Shot Content
ASTM E136	Combustibility (insulation only)
ASTM E84	Surface Burning Characteristics
ASTM C1393	Perpendicular Fiber

*Technical data included herein is as provided by respective manufacturers.*

## THERMAL CONDUCTIVITY



Warranty Disclaimers and Liability Limitations. The purchaser / user is advised to consult with the appropriate professionals and to read the manufacturer's product information to determine the adequacy or appropriateness of the product for the use intended.

*Refer to the back of the SPI invoice for SPI's Warranty Disclaimers and Liability Limitations. These provisions generally include, without limitation, a disclaimer of all warranties other than, to the extent assignable, an assignment of any manufacturers' warranties and limitation of remedies to repair or replacement.*



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## RIGIDFLEX® 1000 CUT TO SIZE CHART

Approx. Length in Inches\* to Cut Rigidflex Rolls to Fit Large Pipes and Ducts

Pipe Size	Thickness			
	1"	1-1/2"	2"	3"
10"	40			
12"	46-3/8	49-1/2		
14"	50-1/4	53-3/8		
16"	56-1/2	59-3/4	62-7/8	
18"	62-7/8	66	69-1/8	
20"	69-1/8	72-1/4	75-3/8	
22"	75-3/8	78-1/2	81-3/4	88
24"	81-3/4	84-7/8	88	94-1/4
26"	88	91-1/8	94-1/4	100-1/2
28"	94-1/4	97-3/8	100-1/2	106-7/8
30"	100-1/2	103-3/4	106-7/8	113-1/8
32"	106-7/8	110	113-7/8	119-3/8
34"	113-1/8	116-1/4	119-3/8	125-3/4
36"	119-3/8	122-1/2	125-3/4	132
38"	125-3/4	128-3/4	132	138-1/4
40"	132	135-1/8	138-1/4	144-1/2
42"	138-1/4	141-3/8	144-1/2	151

These dimensions do not include a lap. You must add 2" through 4" for a lap.

*Example:* To use Rigidflex instead of 18" x 2" pipe covering:

1. Cut piece 72-1/8" long (69-1/8" plus 3" for lap).
2. Strip off 3" of the fiber glass leaving the jacket intact.
3. Physically apply to the pipe the first section cut of any size to verify exact dimension required.
4. You now have a section of Rigidflex which will cover a 3 foot section of 18" pipe.

**Please refer to SPI's "Sales and Service Center" directory for your nearest location, or visit [www.spi-co.com/servicecenterdirectory.mv](http://www.spi-co.com/servicecenterdirectory.mv)**