

# BSF PIPE INSULATION

**BSF**  
INSULATION

## Description

**BSF Pipe insulation** is composed of inorganic glass fibres incased into rigid, one meter long, preformed sections of specific diameter and thickness. Rigid pipe insulation is available in iron pipe from ½ inch through 16 inch. Nominal wall thickness range from 25 mm to 75 mm. **BSF Pipe insulation** is supplied plain or with a factory-applied jacket for applications requiring an integral vapor barrier. The standard jacketing material is foil reinforced kraft (FRK) provided with a nominal 50 mm. lap to facilitate closure and vapor sealing of the longitudinal joint.



## Uses

**BSF Pipe insulation** is recommended for use on all hot, cold, concealed and exposed piping operations from -26 °C to 400 °C (-4 °F to 550 °F) such as in residential, commercial and institutional building or in power and process plants. Outdoor or direct bury applications require additional protection from the elements.

## Features and benefits

**Thermal Performance** **BSF Pipe insulation** contributes to lower operating cost and increased efficiency of heating and cooling equipment.

**Vapor Barrier** Low permeance, abuse resistant jackets provide a positive vapor seal when properly installed. Condensation is controlled, thereby maintaining thermal efficiency and preventing dripping water.

**Factory Applied Jackets** greatly speed application, thereby reducing labor costs. Factory rather than field application of jacketing ensures and superior finished appearance and facilitates positive closure of the vapor barrier.

**Safe** The low flame spread of both jacketed and unjacketed pipe insulation ensures maximum safety in any type of construction.

## Products

N.P.S.	I.D.	Pipe section Length 1 m Wall Thickness (inch)				
		1	1 1/2	2	2 1/2	3
1/2	21.4	*	*	*	-	-
3/4	27.8	*	*	*	-	-
1	34.1	*	*	*	-	-
1 1/2	42.9	*	*	*	-	-
1 3/4	48.4	*	*	*	-	-
2	60.3	*	*	*	*	*
2 1/2	73.8	*	*	*	*	*
3	88.9	*	*	*	*	*
3 1/2	101.6	*	*	*	*	*
4	114.3	*	*	*	*	*
5	141.3	*	*	*	*	*
6	168.3	*	*	*	*	*
8	218.1	*	*	*	*	*
10	273.1	*	*	*	*	*
12	323.8	*	*	*	*	*
14	355.6	*	*	*	*	*
16	406.4	*	*	*	*	*
18	457.2	*	*	*	*	*

Note : \* - Products available

: - Products not available

: I.D. is inside diameter of  
insulation

Standard Density 64 kg/m<sup>3</sup> (Non-standard Density 56 kg/m<sup>3</sup> – 100 kg/m<sup>3</sup>)

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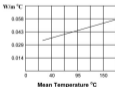
## Physical Property

Property	Test Method	Specification
Operating Temperature range	ASTM C 411	-10 °C to 450 °C (-10 °F to 850 °F)
Facing Temperature Limitation	ASTM C 1136	-20 °C to 115 °C (-5 °F to 240 °F)
Moisture Sorption	ASTM C 1104	< 1.5 % by weight
Vapor Permeability	ASTM C 90	0.02 perm maximum
Mold or Fungus Growth	ASTM C 685	will not support or promote
Surface Burning Characteristics	ASTM E 84*	Flame Spread 0 Smoke Developed 0

\* The surface burning characteristics of these products have been determined in accordance with ASTM E 84. This standard should be used to measure and describe the properties of materials, products, or assemblies in response to heat and flame under controlled laboratory conditions and should be used to describe or appraise the fire hazard or fire risk of materials, products or assemblies under actual fire conditions. However, results of this test may be used as elements of the fire risk assessment which takes into account all of the factors which are pertinent to an assessment of the fire hazard of the particular and use. Values are reported to the nearest 5 rating.

## Thermal Conductivity

Mean Temperature		Thermal Conductivity	
°C	°F	Btu.inch / hr.ft <sup>2</sup> °F	W / mK
10	24	0.21	0.036
24	75	0.22	0.037
38	100	0.24	0.039
93	200	0.30	0.049
149	300	0.36	0.059
204	400	0.46	0.078
260	500	0.60	0.098



## Packaging

BSF Pipe Insulation is packaged in cardboard cartons for 3/4 inch to 4 inch to prevent damage to the insulation in transit and storage. Other sizes are packed in PE Bags. The cartons should be stored inside on pallets or sleepers and kept in dry area. Outside storage is not recommended.



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