



## FIBERTEX 450 ROCKWOOL

### Introduction

Bradford Fibertex 450 is a general purpose industrial insulation for use on process equipment, vessels, tanks and reactors. It is a medium duty thermal and acoustic insulation suitable for continuous operation up to 450°C.

### Product Description

Bradford Fibertex 450 Rockwool is a robust medium density insulation product. Fibertex 450 is manufactured from spinning a molten mixture of natural rock and recycled products into fine wool like fibers. The inorganic fibers are bonded together using a thermosetting resin to form the final product. The product can be identified by its dark green/brown appearance.

### Applications

Fibertex 450 can be used in applications where operating temperatures do not exceed 450°C such as process temperature control, energy conservation, condensation prevention, acoustic absorption treatment and personnel protection from plant and equipment.

Typical applications include:

- large diameter piping
- autoclaves
- party walls
- reactors
- ovens
- kilns
- boilers
- heat exchangers

Bradford Fibertex 450 is easily installed by impaling the batts or blankets on weld pins and securing with speed clips. The un-faced surface of the Rockwool Batt or Blanket is to be applied to the hot surface to be

insulated. On small vessels the insulation may be simply retained by wire mesh or metal bands. For acoustic panel applications ensure cavity dimension is equal or less than product thickness.

### Benefits

- Lightweight highly durable insulation product
- Forms shape of equipment to be insulated
- Excellent and cost effective thermal insulation
- Performance is not adversely effected from contact with water
- Non combustible
- Low chloride content resulting in less corrosion of insulated steel process equipment
- Biosoluble and safe to use product

### Available Facings

Fibertex 450 is available as either un-faced Semi-rigid boards or Flex-Skin faced blankets. Flex Skin blankets incorporate a non woven fabric facing that enhances flexibility, handling and tensile strength. For mesh faced products please refer to Bradford Fibermesh range of products. Please note a range of facings for Fibertex 450 are available to meet your requirements - contact Bradford for more information

### Health and Safety

This product is manufactured to the latest Fiber Bio-Soluble (FBS-1) Rockwool formulation and is not classified as hazardous according to the criteria of the ASCC (formerly NOHSC) guidelines. For further information refer MSDS sheet on Bradford website.

### SKU Table

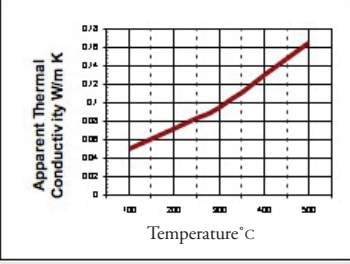
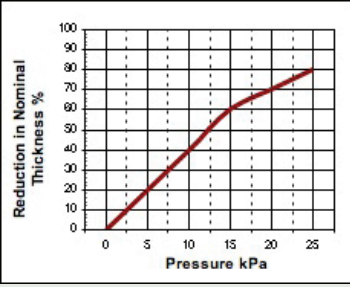
	Thickness (mm)	Length (mm)	Width (mm)	Pieces per Pack	Nominal M2 per pack	Nominal Piece Weight (kg)	Nominal Weight/pack (kg)
Board	25	1500	900	12	16.2	2.7	32.4
	25	1500	1200	6	10.8	3.6	21.6
	38	1500	900	8	10.8	4.1	32.8
	50	1500	900	6	8.1	5.4	32.4
	50	1500	1200	3	5.4	7.2	21.6
	63	1500	900	4	5.4	6.8	27.2
	75	1500	900	4	5.4	8.1	32.4
	75	1500	1200	2	3.6	10.8	21.6
	100	1500	900	3	4.1	10.8	32.4
Blanket	25	3600	750	2	5.4	5.4	10.8
	38	3600	750	1	2.7	8.2	8.2
	50	3600	750	1	2.7	10.8	10.8
	63	3600	750	1	2.7	13.6	13.6
	75	3600	750	1	2.7	16.2	16.2
	100	3600	750	1	2.7	21.6	21.6

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## SKU Table cont.

Standard packaging is polythene bags Note: not all sizes are held in stock. Some are subject to minimum order quantities. Published weights are for product only and do not include packaging.

## Physical Properties

<b>Density</b>	kg/m <sup>3</sup>	80
<b>Maximum Service Temperature</b>		450 °C Flex Skin Surface: 180 °C
<b>Thermal Conductivity</b>	Based on measurements obtained with guarded hot-plate apparatus in accordance with BS874-1973	
<b>Fire Hazard Properties</b>	AS/NZS 1530.3:1999	<ul style="list-style-type: none"> <li>• Ignitability: 0</li> <li>• Spread of flame 0</li> <li>• Heat Evolved 0</li> <li>• Smoke Developed 0</li> <li>• Flex Skin Blanket: 0,0,0,2</li> </ul>
<b>Compressive Resistance</b>	Based on measurements obtained under compressive load, measured in accordance with BS2972-1975	
<b>Corrosion Resistance</b>	BS 3958 part 5- 1969	pH 7.5-9.0
<b>Moisture Absorption</b>	When placed in a controlled atmosphere of 50°C and 95% relative humidity for 96 hours.	Less than 0.2% by volume.
<b>Flow Resistivity</b>		3.3 x 10 <sup>4</sup> mks Rayls/m.
<b>FRL</b>	For systems that require fire resistance levels such as published by CSR Gyprock or CSR Hebel, refer to specific system details for performance.	
<b>Sample Specification</b>	Install Bradford Fibertex 450 in accordance with manufacturers written installation instructions.	

## Sound Absorption

When tested in a reverberation chamber in accordance with AS 1045-1988

Product	Thickness (mm)	Frequency (Hz)							
		125	250	500	1000	2000	4000	5000	NRC
Plain	25	0.08	0.08	0.68	0.93	1.05	1.10	0.98	0.75
	50	0.36	0.91	1.19	1.20	1.07	1.05	1.19	1.09
Thermofoil HD Perforated	50	0.27	0.78	1.23	1.17	1.13	1.00	0.94	1.10

## Flexibility

<b>Blanket Thickness (mm)</b>	25	38	50	63	75
<b>Minimum Bending Diameter (mm)</b>	200	300	450	600	900

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