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Bradford™ Insulation

Fibermesh-450 Rockwool

Data Sheet

Product Description

Bradford Fibermesh-450 is an economical robust thermal insulation. It consists of a flexible mat manufactured from a molten mixture of natural rock and recycled blast furnace waste stitched with wire to a facing of 25mm galvanised hexagonal wire mesh.

A suitable finish such as metal cladding is necessary to protect the insulation from weather and mechanical damage.

Applications

Process temperature control, energy conservation, condensation prevention and personnel protection for plant and equipment such as boilers, heat exchangers, reactors, precipitators, ovens, kilns and autoclaves.

Bradford Fibermesh-450 is easily installed by impaling the blankets on weld pins (with the mesh facing outwards) and securing with speed clips. The mesh joints may be laced together for extra strength if desired.

For safe handling instructions please refer to MSDS sheet.

Standard Size and Packaging

Thickness (mm)	Blanket Size (mm x mm)	Pieces/Pack
25	3600 x 750	2
38	3600 x 750	1
50	3600 x 750	1
63	3000 x 750	1
75	3000 x 750	1
88	2400 x 750	1
100	2400 x 750	1

Note: Not all the above standard sizes are held in stock. Some are subject to minimum order quantities.

Standard packaging is polythene bags.

Nominal weight per 25mm thickness 2.0kg/m² (excluding wire).

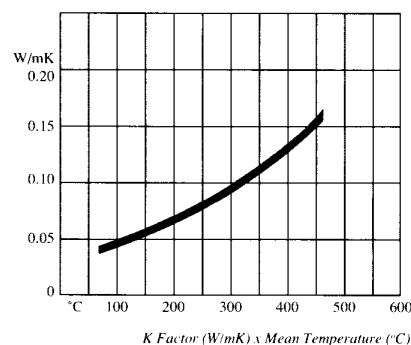
Maximum Service Temperature

Maximum service temperature is 450°C.

Thermal Conductivity

The thermal conductivity of Bradford Fibermesh-450 varies with the mean temperature of the insulation as shown in the graph. The curve is based on measurements made with a guarded hot-plate apparatus in accordance with BS 874 — 1973.

Authority: CSR Building Materials Research Laboratory.



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Fire Resistance

When tested in accordance with AS 1530: Part 3 — 1976, Fibermesh-450 has the following Early Fire Hazard Indices:

Authority: CSR Building Materials Research Laboratory (NATA Certified).

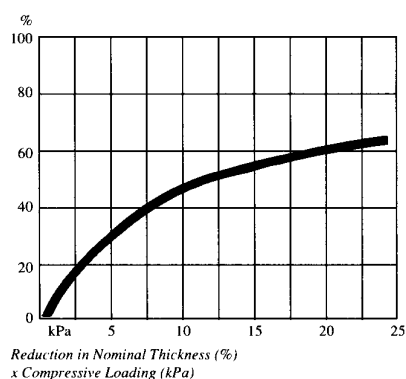
Ignitability	0
Spread of Flame	0
Heat Evolved	0
Smoke Developed	0

Compression Resistance

Bradford Fibermesh-450 is designed particularly for flexibility. It does however have reasonable resistance to compression when subjected to normal loads.

The graph shows the reduction in thickness of Fibermesh-450 under compressive load, measured in accordance with BS 2972 — 1975.

Authority: CSR Building Materials Research Laboratory.



Moisture Resistance

Exposure of Fibermesh-450 to a controlled atmosphere of 50°C and 95% relative humidity for 96 hours results in moisture absorption of less than 0.2% by volume.

Should the blankets become wet, full thermal efficiency will be restored on drying out.

Corrosion Resistance

Bradford Fibermesh-450 is faintly alkaline and is incapable of corroding steel. To maintain this condition, protection must be provided against contamination from external sources.

When tested in accordance with BS 3958: Part 5 — 1969, Fibermesh-450 has a pH of 7.5 — 9.0.

Fibermesh-450 contains less than 20ppm soluble chlorides which minimises the risk of external stress corrosion cracking in austenitic stainless steels. Stainless mesh may also be specially ordered for applications where galvanised mesh is not suitable.

Flexibility

Bradford Fibermesh-450 blankets are designed for maximum flexibility. They will essentially retain their thickness while conforming to virtually any irregular shape.

Retention of the mat by the wire mesh prevents any cracking or breaking.

Vibration Resistance

Because Fibermesh-450 is stitched to wire mesh, the blankets are especially resistant to fallout under conditions where vibration is present.

Fibermesh-450 is particularly useful in situations involving both vibration and high temperatures where standard bonded insulation materials are less resistant to the effects of vibration.

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