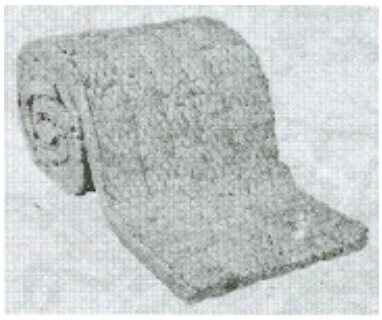
ROCKWOOL

Fibermesh – 450 Wire-Faced Flexible **Data Sheet**

FIBERMESH 450 ROCKWOOL DATA SHEET

Product Description

Fibermesh-450 is robust high density mineral fibre for thermal insulation suitable for high temperature application. It consists of a mat of long, fine fibres, spun from molten natural rock resin-bonded mattress which stitched to a 25mm stainless steel hexagonal wire mesh. A suitable finish such as metal cladding is necessary to protect the insulation from weather or mechanical damage.



Fibermesh 450 Rockwool

Applications

Fibermesh-450 is ideally suitable for thermal insulation of process temperature control, energy conservation and personal protection in the Power generating, Metallurgical, Oil refining and petrochemical plant and equipment such as exhaust flues, Boiler, Hot gas duct, Furnace, Oven. It is also ideal for wrapping large curved surface where high temperatures combine with strong vibrations.

Fibermesh-450 is easily installed the blanket on welding pins by turn the mesh facing outwards and securing with speed clips. The mesh joins may be laced together for extra strength. It is suite for marine application

Standard Sizes & Packaging

Thickness (mm)	Blanket size (mm x mm)	Pieces /pack	Board size (mm x mm)	Pieces /pack
25	5000 x 600	1	900 x 600	12
30	5000 x 600	1	900 x 600	10
40	5000 x 600	1	900 x 600	6
50	5000 x 600	1	900 x 600	6
60	5000 x 600	1	900 x 600	5
70	4000 x 600	1	900 x 600	4
80	3000 x 600	1	900 x 600	3
90	3000 x 600	1	900 x 600	3
100	3000 x 600	1	900 x 600	3

Note: Not all standard sizes are held in stock. Some are subjected to minimum order quantities. Standard packaging is shrink-wrapped polythene

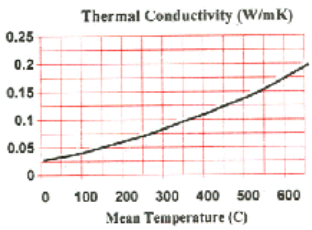
Nominal Density

80 kg/m^3 (5 lb/ft^3)

Maximum Service Temperature

Recommended operating temperature up to 450°C (842°F)
Capability of handling intermittent temperature up to 1000°C (1832°F)

Thermal Conductivity



0.034 W/mK at 20°C mean temperature
(0.235 Btu in/ft^{2}h°F at 68°F)
Thermal conductivity of Fibermesh-450 varies with the mean temperature as shown in graph according to BS 874-1973.

CSR

Moisture Resistance

Exposure to an atmosphere of 50°C and 95% relative humidity for 96 hours results in moisture absorption of less than 0.2% by volume. Should insulation become wet, full thermal efficiency will be restored on drying out. Water repellent grade according to BS 2792 section12 is available to order.

Fire Performance

Fibermesh-450 achieves four zero of Early Fire Hazard Indices when tested with AS1530:Part3-1976 (same as BS 476:Part5,6,7-1967) for non-combustible material.

Ignitability (0-20)	0	Heat Evolved (0-10)	0
Spread of Flame (0-10)	0	Smoke Developed (0-10)	0

Corrosion Resistance

Fibermesh-450 is faintly alkaline and not accelerated with steel, copper, or aluminium. To maintain this condition, protection must be provided against contamination from external sources. When tested in accordance with BS 3958:Part 5-1969, results in range of pH 7.5-8.0 Fibermesh-450 minimise the risk of external stress corrosion cracking in austenitic stainless steel.

Flexibility

Fibermesh-450 blanket is designed for maximum flexibility. It will essentially retain their thickness, while conforming to virtually any regular shape. Retention of the fibres by the wire mesh prevents any cracking or breaking.

Vibration Resistance

Because the fibres in Fibermesh-450 are stitched to the wire mesh, the blanket is especially resistant to fall out 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.

Compression Resistance

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

CSR Bradford Rockwool technology is well accepted and recognised by the insulation industry throughout the world.

Our sales and technical executive are well trained and trained and always prepared to offer assistance and advice on all inquiries.

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