FIREPRO CENTABUILD

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Bradford™ Insulation

Fibertex-650 Rockwool

Data Sheet

Product Description

Bradford Fibertex-650 is a robust, high density insulation material suitable for hot surfaces up to 650°C. It is manufactured from a molten mixture of natural rock and recycled blast furnace waste products, bonded with a thermosetting resin.

Bradford Fibertex-650 is available as:
- Semi-rigid batts
- Flex-Skin blankets.

Flex-skin blankets incorporate a facing of a non woven fabric which enhances flexibility, handling characteristics and the tensile strength of Fibertex-650 blankets.

Application

Process temperature control, energy conservation and personnel protectioin the power generating, metallurgical, oil refining and chemical industries, including plant and equipment such as exhaust flues, hot gas ducts, boilers, furnaces, ovens, autoclaves and kilns.

Bradford Fibertex-650 is easily installed by impaling the batts or blankets on weld pins and securing with speed clips. The unfaced surface of the Rookwool Batt or Blanke is to be applied to the hot surface to be insulated. Detailed installation instructions for a wide range of applications are available from Bradford Sales Offices.

For safe handling instructions please refer to MSDS sheet.

Standard Sizes and Packaging

Thickness (mm)	Sheet Size (mm x mm)	Pieces/ Pack	Blanket Size (mm x mm)	Pieces/ Pack
25	1500 x 900	6	3600 x 750	2
38	1500 x 900	4	3600 x 750	1
50	1500 x 900	3	3600 x 750	1
63	1500 x 900	2	N/A	N/A
75	1500 x 900	2	N/A	N/A

Standard packaging is shrink wrapped polythene.
Nominal weight per 25mm thickness 2.5kg/m^2.

Maximum Service Temperature

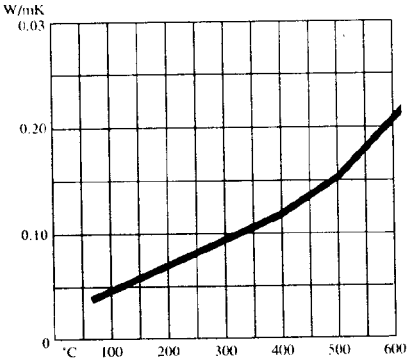
Maximum service temperature is 650°C.

Maximum service temperature for Flex-Skin surface is 180°C.

Thermal Conductivity

The thermal conductivity of Bradford Fibertex-650 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.



Thermal Conductivity (W/mK) x Mean Temperature (°C)

Fibertex-650 Rockwool

Fire Resistance

When tested in accordance with AS 1530: Part 3 — 1989, Fibertex-650 has the following Early Fire Hazard Indices*:

Authority: CSR Building Materials Research Laboratory.

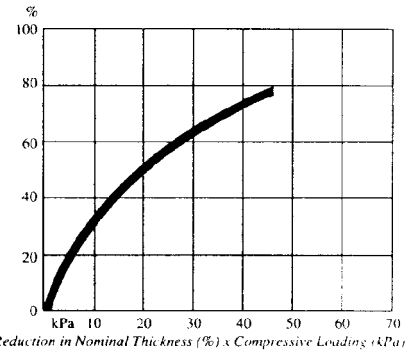
Ignitability	0
Spread of Flame	0
Heat Evolved	0
Smoke Developed	0

*Note: For Flex-Skin blanket with facing exposed to heat source EHHT indices are 0,0,0,2

Compression Resistance

Bradford Fibertex-650 offers high resistance to compression, combined with ready recovery to nominal thickness when a normal compressive load is removed.

The graph shows the reduction in thickness of Fibertex-650 rigid batts under compressive load, measured in accordance with BS 2972 — 1975.



Reduction in Nominal Thickness (%) x Compressive Loading (kPa)

Moisture Resistance

Exposure of Fibertex-650 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 batts or blankets become wet, full thermal efficiency will be restored on drying out.

Corrosion Resistance

Bradford Fibertex-650 is faintly alkaline and 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, Fibertex-650 has a pH of 7.5 — 9.0.

Fibertex-650 contains less than 20ppm soluble chlorides. For critical applications involving austenitic stainless steels, a special low chloride formulation is available to order.

Flexibility

Bradford Fibertex-650 flexible blankets have the following bending characteristics:

Blanket Thickness (mm)	25	38	50	63	75
Minimum Bending Diameter (mm)	300	450	600	900	1100

Sound Absorption

When tested in a reverberation chamber in accordance with AS 1045 — 1971 the sound absorption coefficients shown in the table were measured.

Product	Thickness (mm)	Frequency (Hz) 125	250	500	1000	2000	4000	5000	NRC
Plain	25	0.21	0.29	0.52	1.14	1.02	0.97	1.06	0.69
	50	0.59	0.97	1.18	1.00	1.04	1.02	1.03	0.97

Flow Resistivity

5.0 x 10^4 mks Rayls/m.

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