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Bradford™ Insulation

Fibertex-350 Rockwool — Data Sheet

Product Description

Bradford Fibertex-350 is an economical lightweight thermal insulation, manufactured from a molten mixture of natural rock and recycled blast furnace waste products, bonded with a thermosetting resin.

Bradford Fibertex-350 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-350 blankets.

Application

Process temperature control, energy conservation, condensation prevention and personnel protection for plant and equipment such as storage tanks, heat exchangers, reactors, precipitators, stacks, ovens, air-conditioning ductwork, refrigeration equipment and large diameter piping.

Bradford Fibertex-350 is easily installed by impaling the batts or blankets on weld pins and securing with speed clips. The unfaced 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 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	12	3600 x 750	2
38	1500 x 900	8	3600 x 750	2
50	1500 x 900	6	3600 x 750	1
63	1500 x 900	5	3600 x 750	1
75	1500 x 900	4	3600 x 750	1
88	1500 x 900	4	N/A	N/A
100	1500 x 900	3	N/A	N/A

Standard packaging is shrink wrapped polythene.
Nominal weight per 25mm thickness 1.5kg/m^2.

Maximum Service Temperature

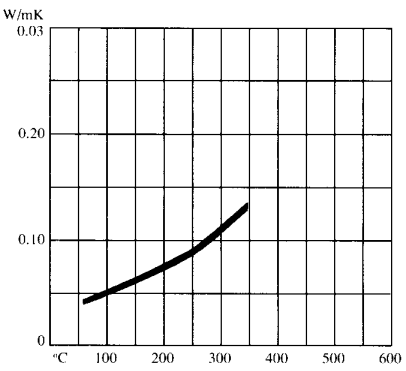
Maximum service temperature is 350°C.

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

Thermal Conductivity

The thermal conductivity of Bradford Fibertex-350 varies with the mean temperature of the insulation as shown in the graph. The curve is based on the 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-350 Rockwool

Fire Resistance

When tested in accordance with AS 1530: Part 3 — 1989, Fibertex-350 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

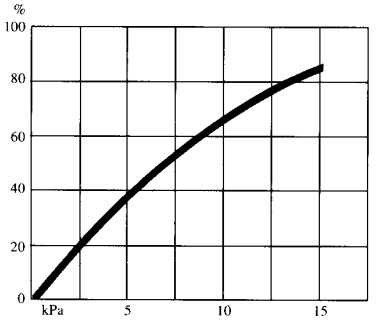
*Note: For Flex-Skin blanket with facing exposed to heat source EFHT indices are 0,0,0,2

Compression Resistance

Fibertex-350 is a resilient insulation material which readily recovers to its nominal thickness after the removal of a normal compressive load.

The graph shows the reduction in thickness of Fibertex-350 semi-rigid batts under compressive load, measured in accordance with BS 2972 — 1975.

Authority: CSR Building Materials Research Laboratory.



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

Moisture Resistance

Exposure of Fibertex-350 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 blanket become wet, full thermal efficiency will be restored on drying out.

Corrosion Resistance

Bradford Fibertex-350 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-350 has a pH of 7.5 — 9.0.

Fibertex-350 contains less than 20ppm soluble chlorides. For critical application involving austenitic stainless steels, a special low chloride formulation is available to order.

Flexibility

Bradford Fibertex-350 flexible blankets have the following bending characteristics:

Blanket Thickness (mm)	25	38	50	63	75
Minimum Bending Diameter (mm)	150	200	300	400	600

Sound Absorption

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

Product	Thickness (mm)	Frequency (Hz) 125	250	500	1000	2000	4000	5000	NRC
Plain	25	0.18	0.29	0.69	0.86	1.05	1.20	1.16	0.71
	50	0.29	0.70	1.19	1.04	1.14	1.06	1.07	0.93

Flow Resistivity

2.2 x 10^4 mks Rayls/m.

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