

# ROCKWOOL

## FIBERTEX-350 Industrial Blanket and Board

## DATA SHEET

### Product Description

Fibertex-350 is an economical lightweight mineral fibre for thermal and acoustical insulation. It consists of long, fine fibres, spun from molten natural rock and bonded with thermosetting resin.

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

Fibertex-350 is supplied in flexible roll form and semi-rigid slab for a wide variety of applications, at both high and low temperatures.



Fibertex-350 Rockwool

### Applications

Fibertex-350 is particularly suitable for thermal insulation, for Process temperature control, HVAC-ductwork, Hot and Cold piping, Refrigeration equipment, Wall lining, Storage tanks, Heat exchangers, Stacks, Vessels and Ovens.

Fibertex-350 is easily installed by impaling pins and securing with speed clips. For small vessels, we can retain insulation by wire mesh or metal bands. In case of irregular shaped or small diameter vessels, Fibermesh-450 is recommended. Furthermore, it can be used as acoustic insulation for noise control as lining on walls or as an absorbent medium in silencers. With high melting point fibres, it can be used as fire safing insulation in Fire door and Fire walls.

### Standard Sizes & Packaging

Thickness (mm)	Blanket Size (mm x mm)	Pieces /pack	Board Size (mm x mm)	Pieces /pack
30	5000 x 600	1	1200 x 600	10
40	5000 x 600	1	1200 x 600	6
50	5000 x 600	1	1200 x 600	6
60	4000 x 600	1	1200 x 600	5
70	3000 x 600	1	1200 x 600	4
80	2000 x 600	1	1200 x 600	3
90	2000 x 600	1	1200 x 600	3
100	2000 x 600	1	1200 x 600	3

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

### Nominal Density

60 kg/m<sup>3</sup> (3 ¾ lb/ft<sup>3</sup>).

### Maximum Service Temperature

Recommended operating temperature up to 350 °C (662 °F)  
Capability of handling intermittent temperature up to 1000 °C (1832 °F)

### Fusion Temperature

Fusion temperature or Melting point of rockwool at 1350 °C (2462 °F)

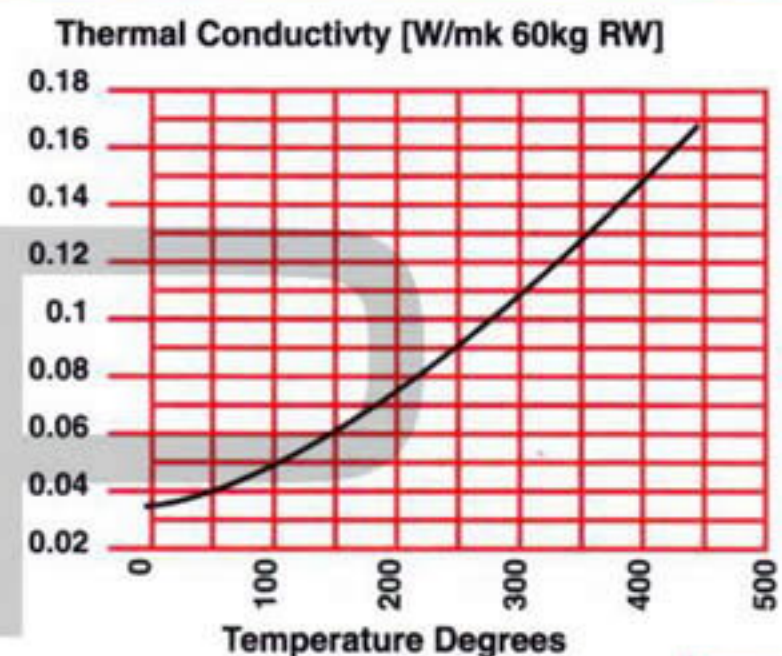
### Thermal Conductivity

0.034 W/mK at 20°C mean temperature  
(0.235 BTU in/ft<sup>2</sup>h°F at 68°F)

Thermal conductivity of Fibertex-350 varies with the mean temperature as shown in graph according to BS 874-1973.

Insulation performance requirements may be specified in many different ways such as Thermal conductivity, Thermal resistance, Process temperature, Allowable surface temperature or Heat loss.

CSR Application Engineers will provide technical services and more details to meet any specification.





## Factory Applied Facings

Product is available to order with wide ranges of factory applied facings such as various grades of aluminium foil, glass cloth, glass matt, polyester laminate.

## Fire Performance

Fibertex-350 achieves four zero Early Fire Hazard Indices when tested in accordance with AS 1530:Part 3-1976 (same as BS 476 : Part 5, 6, 7-1967) for non-combustible material.

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

## 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 section 12 is available to order.

## Corrosion Resistance

Fibertex-350 is faintly alkaline and is incapable of corroding 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. Fibertex-350 contains less than 15ppm soluble chlorides. For critical applications involving austenitic stainless steel, a low chloride formulation is available to order.

## Acoustic Properties

When tested in a reverberation chamber in accordance with AS 1045-1971, sound absorption coefficients of Fibertex-350 are shown in the table:

Thickness (mm)	Centre Frequency (Hz)							NRC*
	125	250	500	1000	2000	4000	5000	
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

NRC\* is the average sound absorption coefficient between 250 to 2000 Hz .

## Compression Resistance

Fibertex-350 is a resilient insulation material which readily recovers to original shape after removal of compressive load.

The graph shows the reduction in thickness (%) under compressive load (kPa), measured in accordance with BS 2972 -1975.

