บริษัท ท็อป อินซูเลชั่น แอนต์ เทรตติ้ง จำกัด 1008/42 หมู่ 7 ซอยเพชรเกษม 106 ก.เพชรเกษม แขวงหนองค้างพลู เขตหนองแขม กรุงเทพ 10160 Tel. 02 808 2147-8 Fax. 02 808 3457

ROCKWOOL

FIBERTEX-650 Industrial Blanket and Board

DATA SHEET

Product Description

Fibertex-650 is a high density mineral fibre for thermal and acoustical insulation. It consists of long, fine fibres, spun from molten natural rock and formed into resinbonded slab and blanket. A suitable finish

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

Fibertex-650 is supplied in flexible roll form and semi-rigid slab with good load bearing characteristics for a wide variety of applications, at both high and low temperatures.



Fibertex-650 Rockwool

Applications

Fibertex-650 is ideal for the insulation where both high temperature and mechanical vibration conditions are present, e.g. Furnace, Boiler, Hot gas duct, Exhaust flues, Reactor. It is mostly used in Power generating, Metallurgical, Oil refining and Petrochemical plants and equipments.

Fibertex-650 is easily installed by impaling with pins and securing with speed clips. Detailed fixing recommendations are available from CSR offices.

For small diameter vessels or irregular shaped surfaces, Fibermesh-650 is recommended in use. Furthermore, Fibertex-650 still provides superior sound absorption and used as fire-safe insulation.

Standard Sizes & Packaging

Thickness (mm)	Blanket Size (mm x mm)	Pieces /pack	Board Size (mm x mm)	Pieces /pack
25	5000 x 600	1	1200 x 600	12
30	5000 x 600	1	1200 x 600	8
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
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 $100 \text{ kg/m}^3 (6 \frac{1}{4} \text{ lb/ft}^3)$

Maximum Service Temperature

Recommended operating temperature up to 650 °C (1202 °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)

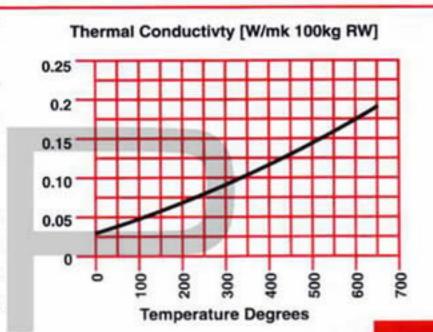
Thermal Conductivity

0.034 W/mK at 20°C mean temperature (0.235 BTU in/ft²h°F at 68°F)

Thermal conductivity of Fibertex-650 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.



CSR



Product is available to order with wide ranges of factory applied facings such as vari-

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r dotory repplied r dolligo	ous grades of aluminium foil, glass cloth, glass matt, polyester laminate.							
Fire Performance	Fibertex-650 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 Spread of Flame Heat Evolved Smoke Developed	(0-20) (0-10) (0-10) (0-10)	0 0 0 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-650 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 a range of pH 7.5 - 8.0. Fibertex-650 contains less than 15 ppm soluble chlorides. For critical applications involving austenitic stainless steel, a low chloride formulation is available to order.							

Acoustic Properties

Factory Applied Facings

When tested in a reverberation chamber in accordance with AS 1045-1971 sound absorption coefficients of Fibertex-650 are shown in the table :

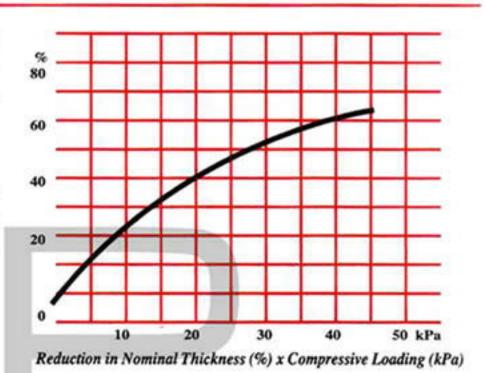
Thickness (mm)	Centre Frequency (Hz)							
	125	250	500	1000	2000	4000	5000	NRC*
25	0.21	0.29	0.52	1.14	1.02	1.97	1.06	0.69
50	0.59	0.97	1.18	1.00	1.04	1.02	1.03	0.97

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

Compression Resistance

Fibertex-650 offers high resistance to compression, combined with ready recovery to nominal thickness after removal of compressive load.

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



Insulation and Trading Company Limited