

MINROCK

Lightly bonded mattresses

Product Description

Minrock rockwool lightly bonded mattresses (LRB) consist of fine fibres spun from selected rocks melted at a high temperature and bonded with a thermosetting resin. They are then felted in a predetermined fibre lay pattern and are baked to form preformed mattresses of predetermined density & thickness with uniform fibre distribution. Mattresses are then stitched, slit and chopped to specified dimensions.

Minrock LRB has excellent stability and has no chicken feathering which pollutes the atmosphere during application. It has controlled thickness and density resulting in predictable heat losses.



Minrock lightly bonded mattresses conforming to IS-8183

Applications

Minrock LRB mattresses are used for both hot and cold insulation to conserve energy, maintain process temperature, provide personal protection, prevent condensation and reduce noise level. Minrock LRB mattresses are used for thermal insulation

of pipe, tanks, equipments, boilers, electrostatic precipitators, flues and ventilation ducts, ovens, furnaces, kilns and fire insulation of fire doors.

Standard Size and Packing

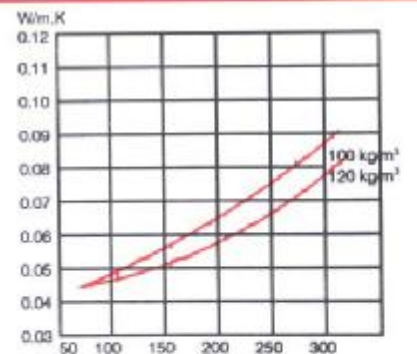
Size of mattresses	1640 mm x 1220 mm
Thickness	25mm to 100mm
Density (Kg/Cu.m)	100, 120, 150
Metal Facing	G.I. Hexagonal wire netting 3/4" x 24 G
Standard packing	Polythene bonded hessian
Other sizes of wire netting available on request	

Maximum Service Temperature

750°C

Thermal Conductivity

Minrock products have extremely low K-values for wide range of temperatures. Typical thermal conductivity values are given in the graph for various densities and mean temperatures.



Thermal Conductivity (W/m.K) x Mean Temperature (°C)

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Compression Resistance

Minrock mattresses offer high resistance to compression. Minrock LRB mattresses regain their nominal thickness

after removal of a normal compressive load.

Moisture Resistance

Minrock rockwool mattresses are water repellent and do not absorb moisture by capillary action or ambient moisture from

the atmosphere. Should blankets become wet, full thermal efficiency will be restored on drying out.

Corrosion Resistance

Will not cause, initiate or promote corrosion.

Flexibility

Minrock mattresses are designed for maximum flexibility. They will essentially retain their thickness while conforming

to virtually any irregular shape. Retention of fibres by the wire mesh prevents any cracking or breaking.

Fire Resistance

Minrock mattresses are incombustible and resist spread of flames.



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