

Keeps The Heat Away

INROCK[®]
LRB MATTS



DESIGN COMFORT INSULATION

INROCK® LRB MATTS

- Light resin bonded mattresses consisting of fine fibres spun from a range of selected rocks melted at high temperature bonded with a thermosetting resin.
- These resin bonded mattresses are light weight, strong, resilient and easy to handle and cut to suit intricate shapes.

FACINGS

These light resin bonded mattresses are available with galvanized or stainless steel hexagonal wire mesh on one side or both the sides.



STANDARD DIMENSIONS

Thickness (mm)	Width (mm)	Length (mm)
50 to 100	1220	1520-4000

As per customer request

STANDARD DENSITY

Density Kg/m ³	Thickness (mm)
85	50 - 100
100	50 - 100
120	50 - 100
128	50 - 100
140	50 - 100
150	50 - 100
160	50 - 100

TECHNICAL DATA

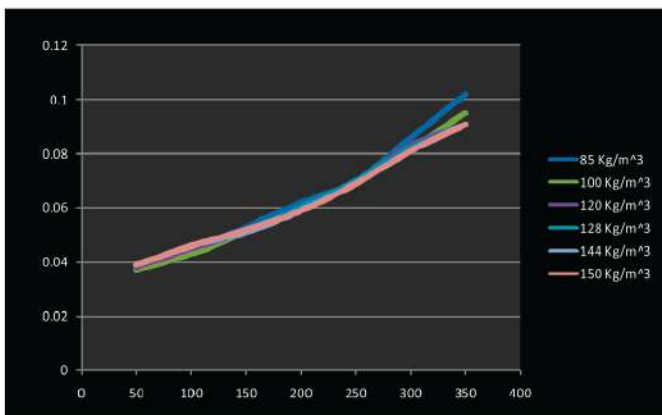
Temperature Range	Up to 750°C (As per IS:8183:94 & IS:3144)
Chemical Composition	Chloride content - less than 10 mg/kg Sulphur content - 0.6% Oil content - 0.2% Carbon content - 0.3%
ph Value	7 to 8
Fibre Properties	Fibre diameter - Less than 7 microns Shot content - Less than 5% of total weight (less than 5% on 500 micron & 15% retention on 250 micron)
Fire Properties	Fire spread index - Less than 5 Smoke developed index - Less than 50
Product Specification	Size - 1640 mm x 1220 mm Density - 85 Kg/m ³ to 160 Kg/m ³ Thickness - 50 mm to 100 mm Facing: GI/SS Hexagonal wire mesh IS: 8183 and ASTM C 592 IS: 3677 & IS: 3144
Physical Properties	CFC & HCFC free Asbestos free Corrosion resistance Non capillary attraction Linear shrinkage less than 2%
Recovery After Compression	More than 90% of original thickness
Moisture Absorption	Less than 2%
Biological Properties	Non hygroscopic Rot proof
Environmental Effect	Zero ozone depletion potential(ODP) & Global warming potential (GWP)<5



THERMAL CONDUCTIVITY TABLE

(AS PER IS:8183, IS: 3677, IS:3346/ASTM C 518/ASTM C 177)

Mean Temp. (°C)	K Value(W/m.K) at different Mean Temperatures and various densities					
	Density Kg/m ³					
	85	100	120	128	144	150
50	0.038	0.037	0.038	0.039	0.039	0.039
100	0.044	0.043	0.045	0.046	0.046	0.046
150	0.053	0.051	0.051	0.052	0.051	0.052
200	0.062	0.060	0.060	0.060	0.059	0.059
250	0.070	0.069	0.070	0.070	0.069	0.069
300	0.086	0.082	0.083	0.082	0.081	0.081
350	0.102	0.095	0.091	0.091	0.091	0.091



K Value v/s Mean Temperature



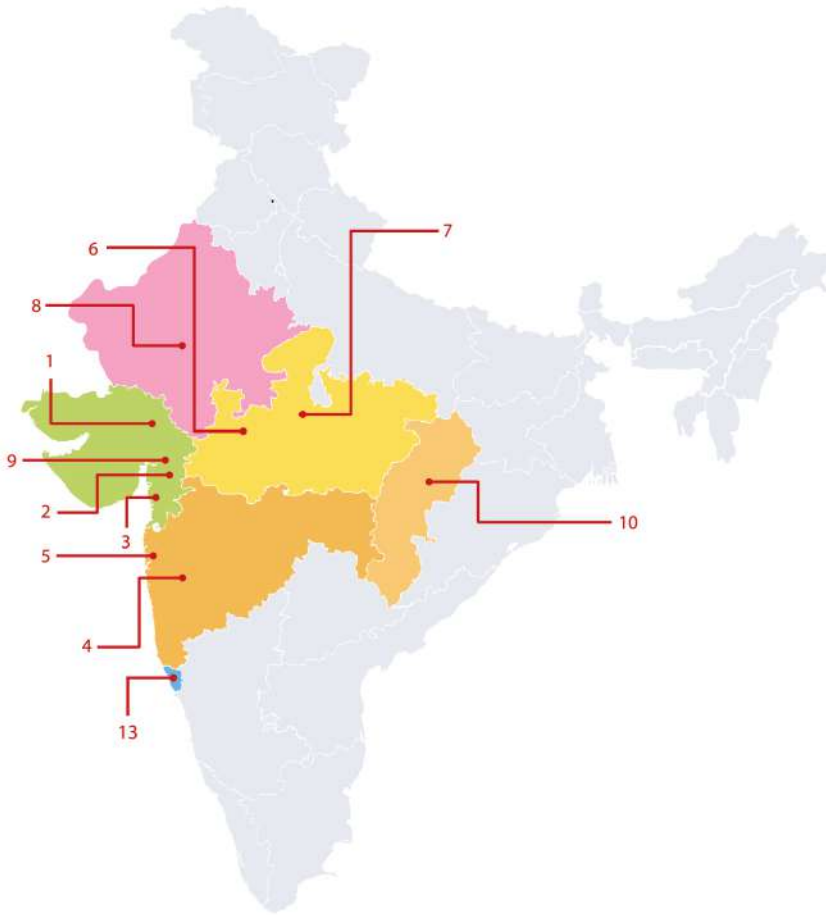
LRB - Rolls

APPLICATIONS

- | | | | |
|---|---|---|---|
| <ul style="list-style-type: none"> • Tanks • Irregular Shape • Large Vessels | <ul style="list-style-type: none"> • Boilers • Ovens • Textile Machinery Equipment | <ul style="list-style-type: none"> • Power Plant • Furnace • Flanges | <ul style="list-style-type: none"> • Valves • Steam Pipeline • Reactor |
|---|---|---|---|

FEATURES

- | | | | |
|---|--|--|--|
| <ul style="list-style-type: none"> • Low Thermal Conductivity • High Temperature Application • High Durability | <ul style="list-style-type: none"> • Non Hygroscopic • Moisture Proof • Non Combustible • Fire Resistant | <ul style="list-style-type: none"> • Non Capillary • Deformation Resistant • Easy To Cut • Easy To Apply | <ul style="list-style-type: none"> • Non Corrosive • Non Carcinogenic • Prevent Thermal Shock |
|---|--|--|--|






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