

# MAXWOOL

*ROCK WOOL INSULATION*

*WIRED/NON WIRED MATTRESS*



## **MAXWOOL® ROCK WOOL MATTRESS OVERVIEW**

MAXWOOL® ROCK WOOL MATTRESS, which using high quality basalt and dolomite as the main raw materials. After melting at a temperature higher than 1450 °C or, it is centrifuged at high speed using an internationally advanced four-axis centrifuge. Dimensions, while spraying a certain amount of binder, dustproof oil, water repellent, and collecting by a cotton collector. Through the pendulum method, and three-dimensional method, after curing, it is solidified and cut to form different Rock wool products for specifications and uses.

MAXWOOL® ROCK WOOL MATTRESS fully made and complies with the requirements set by international recognized standards like GB11835, GB50264, EN14303, ASTM C612, met various performance testing requirements. The product has ISO, CE and A1 certification approval.

# MAXWOOL

## WIRED & NON WIRED MATTRESS



### ADVANTAGES

- Flexible application
- Suitable for high temperature application
- Suitable for the thermal and acoustic insulation
- Suitable for large diameter piping, vessels, ducts
- Available in a wide range of thickness



### SPECIFICATION

Density	50-160kg/m3
Thickness	30-100mm
Width	600/910mm
Length	2500-5000mm

Note: Above size are standard sizes, for other size please consult us. The material of the stitched net is galvanized mesh or stainless steel mesh. The common standard is 24# wirediameter with mesh diameter of 1" or 22# wire diameter wire mesh with a mesh diameter of 1"

### INSTALLATION GUIDELINES

Cut the mattress to length, so that the mat fits the pipe with slight pre -stressing. The closing joints must be staggered at an angle of at least 30 degrees to each other. The closing joints of the mats (lengthwise and circular) must be wired together.

The insulation should be finished with a metal (e.g. aluminum) cladding. Where necessary, expansion joints are provided to cater for expansion of the pipes. Both the lengthwise and circular joints are fastened with sheet-metal screws: hard aluminum or stainless steel. Close the expansion joints with a steel tensioning wire. Connections to mountings, head and end caps etc. should be made watertight using a suitable sealant.

## TECHNICAL PARAMETERS

Description	Blanket 80	Blanket 100	Blanket 120	Standard
Density	80kg/m3	100kg/m3	120kg/m3	
Thermal Conductivity				ASTM C335
50°C	0.038W/mK	0.033W/mK	0.030W/mK	
100°C	0.045W/mK	0.038W/mK	0.035W/mK	
150°C	0.054W/mK	0.054W/mK	0.053W/mK	
200°C	0.062W/mK	0.058W/mK	0.057W/mK	
250°C	0.074W/mK	0.069W/mK	0.066W/mK	
300°C		0.081W/mK	0.078W/mK	
350°C		0.094W/mK	0.089W/mK	
Hot Surface Performance	450°C	650°C	750°C	ASTM C411 / ASTM C447
Linear shrinkage, max % at	0.002	0.40%	3.50%	ASTM C356
Surface Burning Characteristic				
FSI	0	0	0	ASTM E84
SD	20	20	20	
Water Absorption	<1kg/m <sup>2</sup>	<1kg/m <sup>2</sup>	<1kg/m <sup>2</sup>	EN1609 / BS 2972
PH		“7-10		IS 3144
Water Vapor Sorption	≤0.5% by weight	≤0.4% by weight	≤0.2% by weight	ASTM C1104
Chloride Ion Content		P.P.M≤25		ASTM C871
Corrosion to stainless steel		Conforms to the stainless steel corrosion specification as per		ASTM C692 / ASTM C795
Health & Safety:	Asbestos	No asbestos		
	Irritating odor	No Irritating odor		ASTM C665-06
	Bacteria	No Bacteria		ASTM C1338
Compliance to Standard	ASTM C592 “Standard specification for rock wool blanket insulation”			
	Type I & III			

*Note: The technical data sheet is based on tests performed in the Laboratory. Nothing herein to be construed as a warranty or representation and we recommend, However, that all potential users of the product make their own actual tests prior to using it on industrial scale.*