

ROCKWOOL RockTech Wired Mats Series

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ROCKWOOL RockTech WM

ROCKWOOL stone wool is mainly made from natural stone. The selected stone are melted in a cupola at approximately 1450°C, and the molten lava is fiberized by a spinner. The fibers are then coated with a thermosetting binder which bonds the fibers into a mat. The mat is then cut into suitable sizes for ease of handling and installation. Other products such as wired blanket, pipe cover or faced products are produced by secondary processes. ROCKWOOL RockTech series is an environmentally friendly product with excellent properties of fire safety, water repellency, thermal efficiency, acoustical comfort etc.

ROCKWOOL RockTech WM complies with Chinese and international standards of GB 11835, GB 50264, DL/T 5072, SH3010, ASTM C592 and JIS A9504.

Product Series

ROCKWOOL RockTech Wired Mats series is designed specifically for industrial technical insulation, it has high temperature resistance, good corrosion resistance and low thermal conductivity. RockTech Wired Mats products are in 2 temperatures to suit various applications:
RT-WM450 RT-WM650

Common Applications

RockTech WM is particularly designed to meet the specific thermal insulation, fire protection and sound attenuation requirements for large process pipework, tanks, vessels, boilers and ducts. RockTech WM is suitable for applications where high temperature combined with vibrations or high fire resistance is required.

Packaging and Storage

RockTech WM is shrink-wrapped in polyethylene sheets or cling wrap for ease of handling, transportation, storage and identification. The product should be stored indoor or under a waterproof covering. The product should not be placed directly on floor to avoid ground moisture from entering into the product.

Handling and Installation

RockTech WM can be cut to required length and wrapped tightly around the equipment. The edges of each mattress should be butt jointed closely together to eliminate gaps and stitched using steel wire. RockTech WM can be secured to the equipment with steel bands or pins with speed clips. Further information can be obtained from our local sales representatives.



Supplementary Product—— ROCKWOOL Loose Wool

General Product Information

Loose Wool is a robust thermal insulation especially suited for irregularly shaped vessels and surfaces. It consists of long, fine fibres spun from molten natural stone with a small amount of dust suppression agent. Loose wool is supplied in polythene bags with nominal weight of 12.5kg. The product shall be stored indoor and kept out of moisture.



ROCKWOOL is the world's leading supplier of stone wool innovative products and systems, dedicated to improving the environment and people's quality of life.

ROCKWOOL RockTech WM

Dimensions and Densities

Product Type	Unit	RT-WM450	RT-WM650
Density	Kg/m ³	80	100
Size (for 30-70mm thickness)	mm	Length x Width	5000 x 600mm
Size (for 75-100mm thickness)	mm	Length x Width	3000 x 600mm

Notes: 1. Standard widths are 600mm and 910mm, for other sizes, please refer to local sales representative.
2. Standard wire mesh is of galvanized steel with wire diameter of gauge 24# or gauge 22# and 1 inch (25.4mm) hexagonal pattern. Wire mesh of stainless steel is also available.

Technical Parameters

	RT-WM450	RT-WM650	Unit	Standards
Density	80	100	Kg/m ³	GB/T 5480.3
Thermal Conductivity ¹	-	-	W/mK	GB/T 10294, GB/T 10296
70°C	0.040	0.038	-	-
100°C	0.046	0.042	-	-
150°C	0.055	0.048	-	-
200°C	0.064	0.056	-	-
250°C	0.076	0.063	-	-
300°C	0.080	0.070	-	-
350°C	-	0.077	-	-
400°C	-	0.085	-	-
Maximum Service Temperature	550	750	°C	GB/T 17430, GB50264
Recommended Service Temperature ²	450	650	°C	ASTM C411-05, ASTM C447-03, GB50264
Surface Burning Characteristic	-	-	-	-
FSI	0	-	-	ASTM E84-10
SD	≤25	-	-	ASTM E84-10
Fire Performance	Non-combustible, reaction to fire Class A1		-	GB 8624 EN13501-1 BS 476 Part4
Water Vapor Sorption (% by Weight)	≤1%	-	-	ASTM C1104/1104M
Water Vapor Sorption (% by Volume)	≤1%	-	-	ASTM C1104/1104M
Chloride Content 3 (option available)	≤10	-	ppm	GB/T 17393 ASTM C871-08
Water Repellency (option available)	>99%	-	-	GB/T 10299
Health & Safety	-	-	-	-
No asbestos	No asbestos use in the manufacture		-	HJ/T206, ISO 22262-1, NIOSH 9002
Odor Emission	No perceptible odor present		-	ASTM C665-06
Fungi Resistance	Does not encourage growth of fungi		-	ASTM C1338-08

Other Relevant Standards

GB 11835 <Rock wool, slag wool and it's products for thermal insulation>
GB 50264 <Code for design of industrial equipment and pipeline insulation engineering >
ASTM C592<Standard Specification for Mineral Fiber Biber Blanket Insulation and Blanket-Type Pipe Insulation(Metal-Mesh Covered > type I & III.
JIS A9504<Man made mineral fibre thermal insulation materials>
SH3010 <Design code of equipment and piping insulation for petrochemical enterprises>
DL/T 5072 <Code for designing insulation and painting of fossil fuel power plant>

Notes

1. Thermal conductivity of RockTech WM series products are tested under mean temperature, comply with GB/T 10294 <Thermal insulation-Determination of steady: state thermal resistance and related properties-Guarded hot plate apparatus>.Results may be different when tested according to ASTM C177 due to difference in test method and conditions.
2. Recommended Service Temperature is based on maximum service temperature minus 100°C.
3. Product with chloride content ≤10ppm is available. Please consult our local sales representative for more information.

Note:The information contained in this data sheet is believed to be correct at the date of publication. ROCKWOOL Company does not accept responsibility for the consequences of using RockTech WM in applications different from those described above.

ROCKWOOL

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