

# ROCKWOOL RockTech Wired Mats Series



## **General Product Information**

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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.

### **ROCKWOOL FacadeRock**

ROCKWOOL stone wool products are mainly made of natural stone.

#### **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.





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 FacadeRock**

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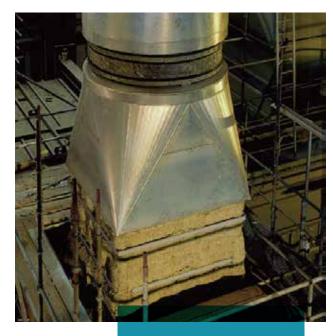
#### **Dimensions and Densities**

Product Type	Unit	RT-WM450	RT-WM650
Density	Kg/m³	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

 $\mbox{\it Notes}\colon$  1. Standard widths are 600mm and 910mm, for other sizes, please refer to local sales representative.

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.





### **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.





ROCKWOL stone wool is a non-combustible insulation material with a melting point of over 1000°C, especially for building insulation, fire protection and noise reduction.

### **ROCKWOOL FacadeRock**

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#### **Technical Parameters**

	RT-WM450	RT-WM650	Unit	Standards	
Density	80	100	Kg/m³	GB/T 5480.3	
Thermal Conductivity <sup>1</sup>	-	-	W/mK	GB/T 10294, GB/T 10296	
70°C	0.040	0.038	-	-	
100℃	0.046	0.042	-	-	
150℃	0.055	0.048	-	-	
200°C	0.064	0.056	-	-	
250°C	0.076	0.063	-	-	
300℃	0.080	0.070	-	-	
350℃	-	0.077	-	-	
400°C	-	0.085	-	-	
Maximum Service Temperature	550	750	Č	GB/T 17430, GB50264	
Recommended Service Temperature <sup>2</sup>	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 and="" for="" insulation="" it's="" products="" slag="" thermal="" wool="" wool,=""> GB 50264 <code and="" design="" engineering="" equipment="" for="" industrial="" insulation="" of="" pipeline=""> ASTM C592 <standard and="" blanket="" blanket-type="" covered)="" fiber="" for="" insulation="" insulation(metal-mesh="" mineral="" pipe="" specification=""> type I &amp; JIS A9504 <man fibre="" insulation="" made="" materials="" mineral="" thermal=""> SH3010 <design and="" code="" enterprises="" equipment="" for="" insulation="" of="" petrochemical="" piping=""> DL/T 5072 <code and="" designing="" for="" fossil="" fuel="" insulation="" of="" painting="" plant="" power=""></code></design></man></standard></code></rock>				

#### 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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