

# Fibermesh 650

## Rockwool Wired Mats

### Product Description



CSR Fibermesh 650 is a highly efficient, semi-flexible thermal insulation suitable for high temperature application. It consists of a mat of long, fine fibres spun from molten natural rock stitched with wire to facing of 25mm(1") galvanized hexagonal wire mesh.

Fibermesh 650 blankets are designed for maximum flexibility and retention of the fibres by the wire mesh prevents any cracking or breaking.

A suitable finish such as metal cladding is necessary to protect the insulation from weather and mechanical damage.

Compliant with ASTM C 592 Class II.

### Applications

Process temperature control, energy conservation and personnel protection in the power generating, metallurgical, oil refining and chemical industries, including plant and equipment such as exhaust flues, hot gas ducts, boilers, furnaces, ovens, autoclaves and kilns.

CSR Fibermesh 650 is easily installed by impaling the blankets on weld pins (with the mesh facing outwards) and securing with speed clips. The mesh joins may be laced together for extra strength if desired.

### Sizes and Packaging

Density (kg/m <sup>3</sup> )	100 ± 10%	Thickness (mm)	30-80
Thickness (mm)	Blanket Size L×W (mm)	Pieces/Pack	
30	5000×600	1	
40	5000×600	1	
50	5000×600	1	
60	3000×600	1	
80	3000×600	1	

Standard packaging is fully sealed packed by clingwrap or shrink-wrapped polythene

### Thermal Conductivity

The thermal conductivity of CSR Fibermesh 650 Rockwool varies with the mean temperature of the insulation.

The table is based on measurements made with guarded hot-plate apparatus in accordance with ASTM C177-2004.

Authority: As tested by China National Fibreglass Product Quality Supervision And Testing Centre.

Mean Temp.	Thermal Conductivity
°C	W/mK
50	0.038
100	0.043
200	0.056
300	0.072
400	0.087

### Vibration Resistance

Because the fibres in Fibermesh 650 are stitched to the wire mesh, the blankets are especially resistant to fallout under conditions where vibration is present.

Fibermesh 650 is particularly useful in situations involving both vibration and high temperature where standard bonded insulation materials are less resistant to the effects of vibration.

# Fibermesh 650 Rockwool Wired Mats

## Maximum Service Temperature

Fibermesh 650 Rockwool is suitable for continuous use at 1200°F (650°C) as determined in accordance with ASTM C411 and C447.

## Fire Resistance

Fibermesh 650 Rockwool is non-combustible when tested in accordance with ISO1182 or equivalent.

## Water Vapor Sorption

Water vapor absorption is less than 1% by weight when tested in accordance with ASTM C 1104/C 1104M. Should blankets become wet, full thermal efficiency will be restored on drying out.

## Corrosion Resistance

CSR Fibermesh 650 Rockwool is faintly alkaline and incapable of corroding steel. To maintain this condition, protection must be provided against contamination from external sources. When tested in accordance with ASTM C795 the pH level be within the recommended value of between 7 to 11.7.

When tested in accordance to ASTM C871 and C692, Fibermesh 650 Rockwool is in compliance with ASTM C795 and is suitable for use with Austenitic Stainless Steel.

Specially processed Fibermesh 650 contains less than 6ppm soluble chlorides is available upon ordered.

## Non-Fibrous (shot) Content

Non-fibrous (shot) content in CSR Rockwool products when tested in accordance with ASTM C1335,

≤5%	Coarse shot size	>0.25mm
≤15%	Shot size	>0.15mm
≤30%	Ultimate shot size	>63μm

### CSR (Guangzhou) Building Materials Co., Ltd.

Unit 2515, Profit Plaza, No. 76 West Huangpu Road,  
 Guangzhou, P.R. China Zip code: 510623  
 Tel: +86 20 3839 3636 Fax: +86 20 3839 3637  
 Website: www.csr.com.cn

The content of this brochure are copyright protected and may not be reproduced in any form without prior written consent of CSR. Recommendations and advice regarding the use of the products described in this brochure are to be taken as a guide only, and are given without liability on the part of the company or its employees. We reserve the right to change product specifications without prior notification, please refer CSR office or CSR websites for the latest version of this document. The purchaser should independently determine the suitability of the product for intended use and application.