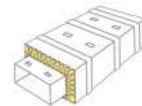


# MicroRock

## Industrial Insulation



## MicroRock Series



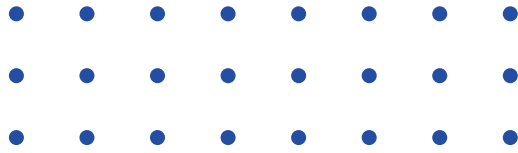
**MicroFiber®**

### General Product Information

MicroRock is a stone wool insulation which suitable for wide ranges of industrial applications. It has the main properties in terms of high heat resistance, water resistance, sound absorption and fire resistance.

**EN**  
European Standard





**MicroRock<sup>®</sup>** series provide  
an excellent acoustic, thermal and  
fire performance for wide range of  
high-temperature industrial applications.



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# MicroRock<sup>®</sup> Wired Mesh

## General Product Properties

MicroRock Wired Mesh is designed for industrial applications. It is able to withstand medium to high pressure point. It also has good corrosion resistance and low thermal conductivity.

## Facings

MicroRock Wired Mesh comes with galvanized wired mesh and stainless steel wired mesh (made-to-order)

## Common Applications

MicroRock Wired Mesh is specifically designed to meet thermal resistance and sound absorption standards for large pipes, tanks, boilers, high-pressure steam pipes, and pipes in large production processes. It is suitable for production process that required high temperature combined with vibrations or fire resistance.

## Densities and Dimensions

MicroRock Wired Mesh is available in three models, which has different level of heat resistance according to size and application: MR-WM9500, MR-WM9600 and MR-WM9700

Product Type	Unit	MR-WM9500	MR-WM9600	MR-WM9700
Density	kg./m <sup>3</sup>	80	100	128
Size (Thickness 25-100mm.)	mm.	600 x 5000 x 50	600 x 3000 x 75	600 x 2000 x 100

Note: Please contact company's sales representative for other sizes

## Installation

MicroRock Wired Mesh can be cut to the desired length and wrapped tightly around the equipment. The edges of each blanket should be stitched together by using steel wire and jointed closely to eliminate gaps. The product can be secured to the equipment by using with pins or steel bands.



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# MicroRock<sup>®</sup> Wired Mesh

## Product characteristics in accordance to ASTM C592

	MR-WM9500	MR-WM9600	MR-WM9700	Unit	Standards
Density	80	100	128	kg./m <sup>3</sup>	ASTM C167
Thickness	25 - 100			mm.	
Dimension	600 x 5000 x 50	600 x 3000 x 75	600 x 2000 x 100	mm.	
Pre-laminated	Wire Mesh				
Thermal Conductivity				(W/m.K)	ASTM C177
23 °C	0.036			-	-
93 °C	0.039			-	-
149 °C	0.046			-	-
204 °C	0.049			-	-
260 °C	0.050			-	-
360 °C	0.057			-	-
371 °C	0.064			-	-
Maximum Service Temperature	650		750	°C	ASTM C411 ASTM C447
Linear Shrinkage	< 2%			-	ASTM C356
Fire Performance	Non-combustible Flame spread = 0 Smoke development = 5			-	ISO EN 1182:2010 BS 476-04 ASTM E84
Water Absorption	< 1			kg./m <sup>2</sup>	BS EN 1609:2013
pH Index	< 10			-	ASTM C871
Chloride Content	Less than 10			ppm.	ASTM C871

# MicroRock<sup>®</sup> Blanket

## General Product Properties

MicroRock Blanket is designed for industrial applications. It is able to withstand medium to high pressure point. It also has good corrosion resistance and low thermal conductivity.

## Facings

MicroRock Blanket comes with galvanized wired mesh and stainless steel wired mesh (made-to-order)

## Common Applications

MicroRock Blanket is specifically designed to meet thermal resistance and sound absorption standards for large pipes, tanks, boilers, high-pressure steam pipes, and pipes in large production processes. It is suitable for production process that required high temperature combined with vibrations or fire resistance.



## Densities and Dimensions

MicroRock Blanket is available in three models, which has different level of heat resistance according to size and application: MR-BL9380, MR-BL9580, and MR-BL9600

Product Type	Unit	MR-BL9380	MR-BL9580	MR-BL9600
Density	kg./m <sup>3</sup>	60	80	100
Size (Thickness 25-100mm.)	mm.	600 x 5000 x 50	600 x 3000 x 75	600 x 2000 x 100

Note: Please contact company's sales representative for other sizes

## Installation

MicroRock Blanket can be cut to the desired length and wrapped tightly around the equipment. The edges of each blanket should be stitched together by using steel wire and jointed closely to eliminate gaps. The product can be secured to the equipment by using with pins or steel bands.



# MicroRock<sup>®</sup> Blanket

## Product characteristics in accordance to ASTM C553

	MR-BL9380	MR-BL9580	MR-9680	Unit	Standards
Density	60	80	100	kg./m <sup>3</sup>	ASTM C167
Thickness	25 - 100			mm.	
Dimension	600 x 5000 x 50	600 x 3000 x 75	600 x 2000 x 100	mm.	
Pre-laminated	Bare or Aluminium Foil				
Thermal Conductivity				(W/m.K)	ASTM C177
23 °C	0.036			-	-
93 °C	0.039			-	-
149 °C	0.046			-	-
204 °C	0.049			-	-
260 °C	0.050			-	-
360 °C	0.057			-	-
371 °C	0.064			-	-
Maximum Service Temperature	650			°C	ASTM C411 ASTM C447
Linear Shrinkage	< 2%			-	ASTM C356
Fire Performance	Non-combustible Flame spread = 0 Smoke development = 5			-	ISO EN 1182:2010 BS 476-04 ASTM E84
Water Absorption	< 1			kg./m <sup>2</sup>	BS EN 1609:2013
pH Index	< 10			-	ASTM C871
Chloride Content	Less than 10			ppm.	ASTM C871

# MicroRock<sup>®</sup> Slab

## General Product Properties

MicroRock Slab is a strong, rigid stone wool insulation board which designed for general building applications as well as residential, commercial, industrial buildings and more. It is able to withstand medium to high pressure point. It also has good corrosion resistance and low thermal conductivity.

## Facings

MicroRock Slab are available with two facing options upon request, which are black glass cloth and aluminium foil.

## Common Applications

MicroRock Slab provides excellent acoustic, thermal and fire performance for wide range of industrial applications, especially applications subjected to heavy mechanical loads and high temperature industrial applications. It includes boilers, tank walls, tank roofs, vessels, and columns.

## Densities and Dimensions

MicroRock Slab is available in four models, which has different level of heat resistance according to size and application: MR-SL9300, MR-SL9500, MR-SL9600, and MR-SL9800

Product Type	Unit	MR-SL9300	MR-SL9500	MR-SL9600	MR-SL9800
Density	kg./m <sup>3</sup>	60	80	100	150
Size (Thickness 25-150mm.)	mm.	600 x 1200			

\*Note: Please contact company's sales representative for other sizes

## Installation

MicroRock Slab can be secured by using screws or metal pins on the insulation surface at the connection point. The edges of each insulator should be aligned to prevent air gap and heat loss. Installer should make sure that insulation that exposed to highly corrosive environment is clean and should use aluminium foil or any certified facing material for anti-corrosion. All joints should be sealed by effective waterproof sealant.



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# MicroRock<sup>®</sup> Slab

## Product characteristics in accordance to ASTM C553

	MR-SL9300	MR-SL9500	MR-SL9600	MR-SL9800	Unit	Standards
Density	60	80	100	150	kg./m <sup>3</sup>	ASTM C167
Thickness	25 - 150				mm.	
Dimension	600 x 1200				mm.	
Pre-laminated	Bare or Aluminium Foil, Glass Cloth					
Thermal Conductivity					(W/m.K)	ASTM C177
23 °C	0.036				-	-
93 °C	0.039				-	-
149 °C	0.046				-	-
204 °C	0.049				-	-
260 °C	0.050				-	-
360 °C	0.057				-	-
371 °C	0.064				-	-
Maximum Service Temperature	650				°C	ASTM C411 ASTM C447
Linear Shrinkage	< 2%				-	ASTM C356
Fire Performance / Surface Burning Characteristics	Non-combustible Flame spread = 0 Smoke development = 5				-	ISO EN 1182:2010 BS 476-04 ASTM E84
Water Absorption	< 1				kg./m <sup>2</sup>	BS EN 1609:2013
Chloride Content	Less than 10				ppm.	ASTM C871

# MicroRock<sup>®</sup> Pipe Cover

## General Product Properties

MicroRock Pipe Cover is designed for industrial applications. It is able to withstand medium to high pressure point. It also has good corrosion resistance, sound absorption, and provided safety for contractors or personnel with international safety standard compliance.

## Facings

MicroRock Pipe Cover is available in plain and aluminium foil facing

## Common Applications

MicroRock Pipe Cover can be used for industrial piping systems, steam pipes, petroleum pipeline systems, and industrial boiler. It is suitable for power plants, chemical plants, steel buildings, metallurgical plants, shipbuilding plants and refineries

## Densities and Dimensions

The MicroRock Pipe Cover is available in two density models, MR-PC9600 and MR-PC9700. In addition, the products are available in various sizes as indicated in the table.

Dimensions	Range
Nominal Pipe Size	21mm. - 477mm.(1/2"-20")
Thickness Range	25mm. - 100mm.
Length	1000mm.

Note: Please contact company's sales representative for other sizes

## Installation

MicroRock Pipe Cover can be cut by using a sharp knife with a jagged edge or a hand saw, a tape measure and a steel ruler, while the product should be held in place by steel wire. Product handling in order to prevent damage can be done by covering the product with aluminium foil or any other suitable coating.



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# MicroRock<sup>®</sup> Pipe Cover

## Product characteristics in accordance to ASTM C547

	MR-PC9600	MR-PC9700	Unit	Standards
Density	120	150	kg./m <sup>3</sup>	ASTM C302
Dimension	1200		mm.	
Pre-laminated	Bare, Aluminium Foil			
Thermal Conductivity			(W/m.K)	ASTM C335
50 °C	0.036		-	-
100 °C	0.043		-	-
150 °C	0.049		-	-
200 °C	0.057		-	-
250 °C	0.065		-	-
300 °C	0.075		-	-
350 °C	0.055		-	-
Maximum Service Temperature	650		°C	ASTM C411 ASTM C447
Linear Shrinkage	< 2%		-	ASTM C356
Reaction to Fire	EuroClass A1		-	EN 13501-1
Fire Performance	Non-combustible Flame spread = 0 Smoke development = 5		-	ISO EN 1182:2010 BS 476-04 ASTM E84
Water Absorption	< 1		kg./m <sup>2</sup>	BS EN 13472: 2012
Chloride Content	Less than 10		ppm.	ASTM C871



# MicroRock

## Safety & Quality Accreditation

**EN**  
European Standard

European Standards



American Society for  
Testing and Material



British Standard  
Institute



<https://chill-flow.com/>



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