

# MG BOARD™ 140KG/M<sup>3</sup>



**NICHIAS**

**HIGHLY EFFICIENT  
HIGH TEMPERATURE INSULATION  
HIGH ACOUSTIC ABSORPTION**

## PRODUCT DATA SHEET

### DESCRIPTION

Nichias Rock Wool Insulation is made of inorganic fibres from volcanic rock and minerals bonded together by an organic binder. Using the latest and most advanced manufacturing technology from Japan, ensures consistent product quality, high fibre density and low shot content for excellent performance for high temperature, fire resistance and acoustic applications.

MG Board™ 140kg/m<sup>3</sup> is a high density multi purpose Rock Wool Board for high Thermal Insulation requirements while providing outstanding Acoustic Absorption. The product is available unfaced and with various Foil facing and Acoustic facings.

### APPLICATIONS

MG Board™ 140kg/m<sup>3</sup> provides excellent thermal insulation performance for process equipment, tanks, ducts and vessels where a high compression resistance is required.

MG Board™ 140kg/m<sup>3</sup> is used for its High Acoustic Absorption qualities in Acoustic Silencers, Partitions, Acoustic Wall Panels, Internal Ductliner and Acoustic Baffles.

MG Board™ 140kg/m<sup>3</sup> can also be covered with Acoustic Facings as an internal building noise control solution

### STANDARD SIZES / PACKAGING / R VALUE

Thickness	Size	pcs Per Pack	R Value @ 24°C
25mm	1.2m x 600mm	16	0.74
40mm	1.2m x 600mm	10	1.2
50mm	1.2m x 600mm	8	1.5
65mm	1.2m x 600mm	6	2.0
75mm	1.2m x 600mm	5	2.2
100mm	1.2m x 600mm	4	3.0



### KEY BENEFITS

- \* Durable and light weight
- \* High fibre content
- \* Low shot content
- \* Non combustible
- \* Non corrosive
- \* Easily cut and formed
- \* Safe to use product and meets the criteria for bio solubility
- \* Low dust fallout
- \* ASTM C612 Mineral fibre block and board thermal insulation - type IV



**NICHIAS**

# MG BOARD™ 140KG/M<sup>3</sup>

HIGHLY EFFICIENT  
HIGH TEMPERATURE INSULATION  
HIGH ACOUSTIC ABSORPTION

## THERMAL CONDUCTIVITY / ASTM C177

140kg/m <sup>3</sup> Thermal Conductivity Table			
Product Name	Nominal Density (kg/m <sup>3</sup> )	140kg/m <sup>3</sup>	
MG BOARD™	Mean Temperature (°C)	24	0.034
		38	0.035
		93	0.043
		149	0.052
		204	0.059
		260	0.072
		316	0.088
		370	0.105

## PHYSICAL PROPERTIES

Maximum Service Temp	650°C	ASTM C411
Early Fire Hazard	AS1530 Part 3	
Ignitability index	0	
Spread of flame	0	
Heat evolved	0	
Smoke developed	1	
Non Combustible	AS1530 Part 1	
Surface Burning Characteristic	ASTM E84	
Group 1 Unfaced	BS476 Part 4	ISO5660
Group 2 Faced	ISO5660	
Corrosion Resistance	ASTM C795	
Water Vapor Absorption	ASTM C1104	
Water Absorption	EN 1609	
Linear Shrinkage at 650°C	ASTM C356	
Shot Content	ASTM C1335	
Odor Emission	ASTM C1304	

## SOUND ABSORPTION PROPERTIES

Frequency (Hz)	Sound Absorption Coefficient
100	0.19
125	0.39
250	1.02
500	1.23
1000	1.13
2000	1.00
4000	0.98
5000	0.96
NRC	1.10

\*Tested 50mm Unfaced



This product does not contain any asbestos fibres nor freon such as CFCs, HFCs, SCFs, HCFCs, which will affect the environment

## MANUFACTURER

**PT. NICHIAS ROCK WOOL INDONESIA**



**NICHIAS Corporation**

<http://www.nichias.co.jp/>

Created 06/06/2019  
Revised 23/10/2019  
Revised 12/05/2020



**THERMACON INSULATION**

16 HODGSON WAY KEWDALE  
PH: +61 08 9353 6033

EMAIL: [thermacon@thermacon.com.au](mailto:thermacon@thermacon.com.au)