

**NICHIAS**

MG MIGHTY ROLL™ 100KG/M³

HIGHLY EFFICIENT HIGH TEMPERATURE INSULATION

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 Mighty Roll™ 100kg/m³ is a multipurpose, high density Rock Wool roll for thermal, acoustic and fire protection applications. The product is available unfaced and with various foil facings including acoustic scrims.

■ APPLICATIONS

MG Mighty Roll™ 100kg/m³ provides excellent thermal insulation performance for mechanical/power and process equipment, tanks, ducts, vessels and pipe systems. MG Mighty Roll™ 100kg/m³ is used for acoustic absorption treatment, personal protection, condensation control and fire protection applications.

MG Mighty Roll™ 100kg/m³ is also a thermally efficient insulation for condensation control with high acoustic insulation performance in commercial roofing, partitioning, ductwork and silencer applications.

MG Mighty Roll™ 100kg/m³ can be installed by impalling the insulation on welded pins and secured with washers. The unfaced side of the roll should be installed to the hot side of the vessel being insulated. MG Mighty Roll™ 100kg/m³ can also be secured with metal banding or wire.

■ STANDARD SIZES / PACKAGING / R VALUE

Thickness	Size	pcs Per Pack	R Value @ 24°C
25mm	5m x 600mm / 1.2m	2 / 1	0.74
40mm	4m x 600mm / 1.2m	2 / 1	1.2
50mm	4m x 600mm / 1.2m	2 / 1	1.5
65mm	3m x 600mm / 1.2m	2 / 1	2.0
75mm	3m x 600mm / 1.2m	2 / 1	2.2
100mm	3m x 600mm / 1.2m	2 / 1	3.0



■ KEY BENEFITS

- * Acoustic Insulation
- * Thermal Insulation
- * High fibre content
- * Low shot content
- * Non combustible
- * Low chloride content as per ASTM C795
- * Safe to use product and meets the criteria for bio solubility
- * Low dust fallout
- * High recycled content
- * Non Corrosive
- * Fire protection
- * Easily cut and formed
- * Does not contain asbestos, CFC, HFC, SCF and HCFC
- * ASTM C553 standard specification for mineral fibre blanket thermal insulation for commercial and industrial applications

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■ THERMAL CONDUCTIVITY / ASTM C177

100kg/m ³ Thermal Conductivity Table			
Product Name	Nominal Density (kg/m ³)		100kg/m ³
MG MIGHTY ROLL™	Mean Temperature (°C)	24	0.034
		38	0.036
		93	0.043
		149	0.050
		204	0.057
		260	0.069
		316	0.082
		370	0.097

■ PHYSICAL PROPERTIES

Density (nominal)	100kg/m ³	
Maximum		
Service Temp	650°C	ASTMC411
Thermal Conductivity	ASTM C177	
Early Fire Hazard	AS1530 Part 3	
Ignitability Index	0	
Spread of flame	0	
Heat evolved	0	
Smoke developed	1	
Surface Burning		
Characteristic	ASTM E84	
Non Combustible	AS1530 Part 1 BS476 Part 4	
Group 1 Unfaced	ISO5660	
Group 2 Faced	ISO5660	
Corrosion Resistance	ASTMC795	
Water Vapor Absorption	ASTMC1104 Less than 0.02% by volume	
Water Absorption	EN 1609	
Linear Shrinkage at 650°C	ASTMC356	
Shot Content	ASTMC1335	
Compressive Strength Test	ASTMC165-07	

■ SOUND ABSORPTION PROPERTIES

ASTMC423 Standard test method for sound absorption

Frequency (HZ)	Sound Absorption Co-efficient
100	0.33
125	0.29
250	1.02
500	1.23
1000	1.13
2000	1.00
4000	0.98
5000	0.96
NRC	1.10

* 50mm tested



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



Industrial & Commercial Thermal Insulation Supply Specialists
ABN 84 149 282 333

Mitchell Kann
Manager

M 0400 035 112
P 07 3272 9501
F 07 3277 9246
E mitchell@industrialinsulationsupplies.com.au

6 Annie Street
Coopers Plains QLD 4108
PO Box 58
Coopers Plains QLD 4108

**NICHIAS Corporation**

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