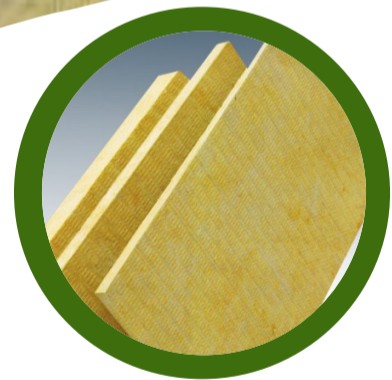




IGROS Marketing Corporation

IMC ROCKWOOL

“A Leading Company in Philippine Fire Safe Insulation”



- **Breathe free**
- **Environmental protective**
- **Fireproof**
- **Energy - saving**
- **Sound insulating**
- **Non - corrosive**
- **Non - radioactive**



Product Characteristics



IMC Mineral wool product is fiber product made of inorganic material such as natural rock and iron slag through high-temperature processing. Containing large amount of air, the product can prevent heat transmit effectively. As thermal conductivity coefficient of mineral wool is very low, it is an excellent material for thermal insulation.

As mineral wool is manufactured by organic materials, it is totally incombustible and able to prevent flame from spreading. Due to its excellent fire-proof property, it is used as an excellent fire-proof material.

Features



Water Repellence

Water Repellence — IMC rock wool products can be water repellent, moisture absorption can be lower than 1%, and does not accumulate moisture in itself, can keep the insulated media dry, therefore limits microbe growth.



Sound Control

Sound Control — IMC rock wool products are made of numerous fibers, and the numerous fibers form the porous structure which can efficiently reduce sound transmission and reflection.



Permeability

Permeability— The open porous fiber structure makes IMC rock wool products permeable, and the vapor can transfer IMC rock wool products easily.



Energy Saving

Energy Saving — In the whole life cycle, averagely, IMC rock wool can save more than 100 times energy than it consumes during production and recycling.



Strong — IMC external wall insulation rock wool products with high compression strength and tensile strength, the rock wool external wall system can effectively resist the external pressure of alternating positive and negative effects, have a certain impact resistance.



Environment Friendly — IMC rock wool does not contain any CFCs, HCFCs, HFCs which can damage the ozone in the atmosphere; Asbestos free, and be classified as not classifiable as to carcinogenicity to humans (Group 3) by the International Agency for Research on Cancer (IARC) which belongs to WTO;

— IMC Rock wool is neutral or alkalescency, doesn't damage, corrode the touching materials



Fire Control — IMC Rock wool is made of natural rock, and therefore is A class non-combustible material with the melting point above 1000°C, retards the fire spreading; When setting on fire, IMC rock wool don't generate any poisonous gas or flaming droplets.



Thermal Insulation — Due to the very thin diameter (about 5µm) and low shot content (about 5%) and porous structure, IMC rock wool has low thermal conductivity coefficient and therefore excellent thermal insulation performance.



IMC Rockwool Blanket

A flexible rolling product covered with iron wire mesh, stainless steel wire mesh or glass fiber cloth. Mainly used for the insulation of large sized pipe and tank, large equipment, special shape components, valves and pipe fittings. Iron and stainless steel wire mesh blanket is especially suitable for thermal insulation high-temperature equipment.

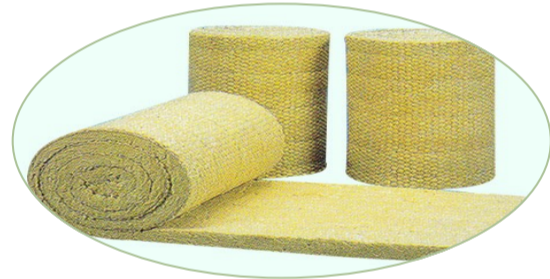


Properties of mineral roll

- Thermal conductivity coefficient: $\leq 0.037 \text{ W/m.K}$ (average test temperature $70 \pm 5/2$)
- Thermal load contraction temperature (maximum application temperature): > 650

APPLICATION PLAIN BLANKET

Normal type among blankets, which is suitable for big diameter pipelines, flat and irregular surfaces, building walls with good thermal insulation and acoustic absorption effects.



ALUMINUM FOIL

Is especially ideal for circular ducts, small equipment and air-conditioning system pipelines. It provides better water-resistance, dust-proof, thermal insulation and reduce risk of condensation occurring on the ductworks.

WIRE MESH

Used in conditions where strong vibration and high temperature. They are also recommended for thermal insulation of boilers, vessels, flanges/valves and big diameter/large irregular pipelines.



Standard Size

Product Type	RL60			RL80			RL 100	
Width, mm	600, 900							
Thickness, mm	50	60	75	50	60	75	40	50
Length, mm	5000	4000	3000	5000	4000	3000	5000	5000

Technical Parameters

Property	RA 60	RA 80	RA 100	Unit	Standard
Thermal Conductivity (25°C)	≤0.040	≤0.038	≤0.038	W/(m•K)	GB/T 10295
					ASTM C177
					ASTM C518
Max Service Temperature	454	650	650	°C	ASTM C411
Heat Load Shrinking Temp	400	400	400	°C	GB/T11835-2007
Moisture Absorption*	≤1.0	≤1.0	≤1.0	%	GB/5480.7
Water Repellence*	99	99	99	%	GB/T 10299
Chloride Content**	10	10	10	mg/kg	ASTM C871
Linear Shrinkage	<2	<2	<2	%	ASTM C356
	A1				
Combustibility & Reaction to Fire	Non-combustible			-	GB 8624
	Smoke Development Index ≤25				ASTM C136
	Flame Spread Index ≤25				ASTM E84
Nominal Density	60	80	100	-	GB/T 11835-2007
					ASTM C665
					ASTM C553
Organic Content	≤1.0	≤1.0	≤1.0	%	GB11835-2007
Environment	Asbestos free, no CFCs, HFC or HCFCs			-	-

Product properties and Specifications					Width (mm):
					600
Length (m)	Density kg/m ³	60	80	100	
Thickness (mm)					
25			10	10	
30			10	10	
40	6	6	6	6	
50	5	5	5	5	
75			3	3	

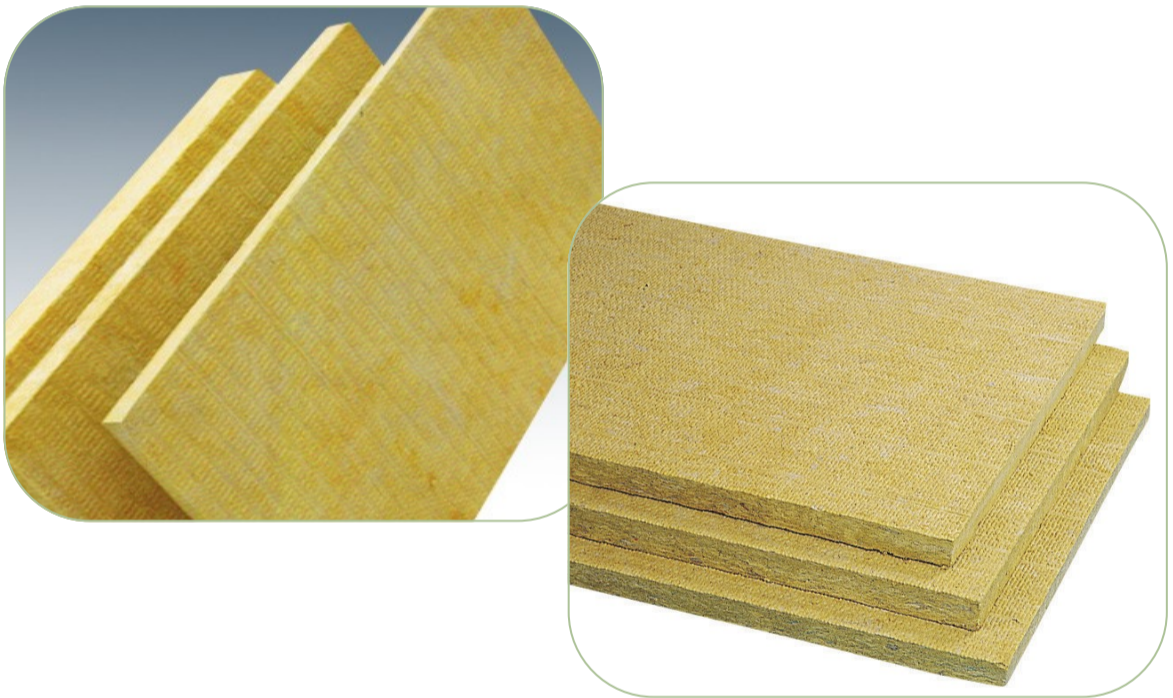
Application:

IMC rock wool blanket are mainly used as insulation agent in building. In building field, rock wool blanket is special suitable for thermal, acoustic and fire insulation in light steel construction roofing system.

Rigid Board

Used in building walls/roof, elevator wells, flat or slightly curved surfaces and other industrial equipment for thermal, fire and sound insulation.

Have various applications at both low and high service temperature, with good load-bearing characteristics, particularly suitable for large vessels, tanks, ovens and ducts.



IMC Rockwool Board

IMC Rockwool Board is mainly made from the natural rock of basalt and dolomite. It is preformed porous and rigid or semi-rigid rock wool board with very good performance on thermal, acoustic and fire insulation. According to different application and requirements, it can be customized as water repellent, and or aluminum foil or glass fiber cloth faced on one side or both sides. Rock wool board is mainly applied for fire and sound proof in partition wall and wall curtain, thermal insulation in roof, retaining structure, floor heating system, industrial kiln, oven, large sized tank, as well as thermal insulation and fire proof of vessels, etc.

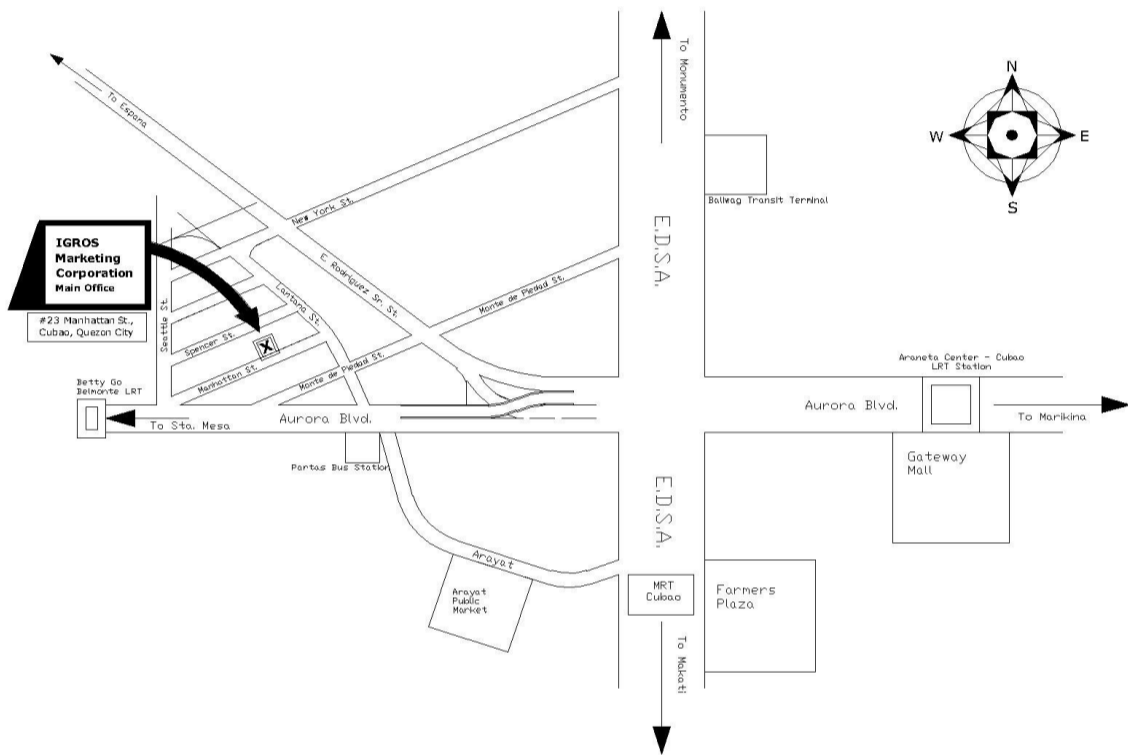
Standard Size

Product Type	IB 60	IB 80	IB 100	IB 120	IB 150
Size (length x width), mm	1200x600				
Thickness, mm	40~100	25~150	25~150	25~120	25~100

Technical Parameters

Product Properties		IB 60	IB 80	IB 100	IB 120	IB 150	Unit	Standard	
Thermal	50°C	0.04	≤0.038	≤0.038	≤0.038	≤0.038	W/(m·K)	GB/T 10295	
Conductivity	100°C	0.046	0.045	0.045	0.045	0.045			
Coefficient	150°C	0.06	0.058	0.056	0.055	0.055			ASTM C518
	200°C	0.077	0.071	0.067	0.064	0.062			
	250°C	0.095	0.085	0.08	0.074	0.07			
	300°C	0.12	0.099	0.095	0.09	0.085	ASTM C177		
Max Service Temperature		450	650	750	750	750	°C	ASTM C411	
Thermal Load Shrink Temp		400	600	650	650	650	°C	GB/T 11835	
Liner Shrinkage at Max Temp		≤2	≤2	≤2	≤2	≤2	%	ASTM C356	
Water vapor absorption*		≤1.0	≤1.0	≤1.0	≤1.0	≤1.0	wt%	ASTM C 1104M	
Water Repellence*		≤99	≤99	≤99	≤99	≤99	%	GB/T 10299	
Chloride Ion Content**		≤10	≤10	≤10	≤10	≤10	mg/kg	ASTM C871	
Fire Performance	Non-combustible							ASTM	
	Flame Spread <25							ASTM E84	
	Smoke Development <25								
Nominal Density		60	80	100	120	150	Kg/m³		

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