

# MAXWOOL

## *ROCK WOOL INSULATION PIPE SECTION*



### MAXWOOL® ROCK WOOL PIPE OVERVIEW

MAXWOOL® Rock wool pipe which using natural basalt as the main raw material, after high temperature melting, Made to artificial inorganic fiber by high-speed centrifugal equipment, adding special binder and dustproof oil, and then Warmed and cured, made into various specifications, different requirements of rock wool insulation pipe. It is strong and rigid and suitable for application on process and piping works operating of maximum temperature +700°C. Each section of Rock wool Pipe can be split at one side and hinged at the other side for easy installation.

MAXWOOL® Rock Wool Pipes are widely used in Insulation of petroleum, chemical, metallurgy, shipbuilding, textile and other industrial boilers and equipment pipes, also used in the partition wall of the construction industry, ceilings and Insulation of interior and exterior walls and various types of cold and hot pipes and hidden, exposed pipes.

MAXWOOL® Rock Wool Pipe fully comply with the requirements set by domestic & international recognized standards like GB11835, GB50264, EN14303, ASTMC612 it also meets various performance testing requirements and with ISO, CE and A1 certification approval.

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## PIPE SECTION



### SPECIFICATION

Density	100-180kg/m3
Thickness	30-150mm
Inner Dia.	22-612mm
Length	1000mm

Note: Above size are standard sizes, for other size please consult us.

### INSTALLATION GUIDELINES

#### ADVANTAGES

- ◆ Suitable for high temperature application
- ◆ Suitable for the thermal and acoustic insulation
- ◆ Easy to handle and to install
- ◆ Suitable for use over stainless steel
- ◆ Available in a wide range of thicknesses & diameter

Fit the rock wool pipes closely around the pipe, with the lengthwise (horizontal) joint turned towards the underside. The lengthwise joints must be staggered at an angle of at least 30 degrees to each other. The shell is secured with galvanized binding wire (thickness 0.5 mm).

For insulation thickness above 100 mm (or temperatures > 250°C) the insulation should be applied in at least two layers. In the case of multi-layer insulation, it is recommended that the lengthwise and crosswise joints are staggered.

All pipe sections should be finished with a metal (e.g. aluminum cladding). Where necessary, expansion joints are required to cater for expansion of the pipes.



## TECHNICAL PARAMETERS

Description		PIPE 110	PIPE 140	Standards
Thickness Tolerance		+3mm	+3mm	EN823
Length Tolerance		+3mm	+3mm	EN822
Nominal Density		120kg/m <sup>3</sup>	140kg/m <sup>3</sup>	ASTM C302
Heat Resistance	No visible deterioration of the fibrous structure.		IS 3144	
	No evidence of self-heating.			
	No fusion of fibers			
Thermal Conductivity				
50°C	0.036W/mK	0.039W/mK		
100°C	0.041W/mK	0.042W/mK		
150°C	0.047W/mK	0.047W/mK		
200°C	0.054W/mK	0.053W/mK		
250°C	0.062W/mK	0.060W/mK		
300°C	0.071W/mK	0.068W/mK		
Hot Surface Performance	650°C	650°C		ASTM C411/ASTM C447
Incombustibility	<5 wt%			IS 3144
Linear Shrinkage at 650°C	<2%	<2%		ASTM C356
Reaction to Fire	EuroClass A1 Surface			EN 13501-1
	burning characteristics;			
	Flame spread = Passed,			ASTM E84
	Smoke development = Passed			
PH	7-10			IS 3144
Water Leachable Chloride Content	Less than 10 ppm			ASTM C871/ IS 3144
	Conforms to the stainless steel corrosion specification			
	as per ASTM C795			ASTM C692/ C871
Surface Burning Characteristic	Flue gas	≤25		ASTM E84-10
	development index			
	Flame spread index	0		ASTM E84-10
Sulphur Content	< 0.3 vol%			IS 3144
Water Absorption (partial immersion)	<0.1kg/m <sup>2</sup>	<0.4kg/m <sup>2</sup>		BS EN13472
Moisture absorption	Less than 1 % weight			ASTM C1104/ C1104M
				IS 3144
Chloride Ion Content	P.P.M≤25			ASTM C871
Water Vapor Sorption	< 0.1% volume			ASTM C1104
Corrosion to Stainless Steel	Conforms to the stainless steel corrosion specification as per ASTM C795			ASTM C692/ASTM C871
Health & Safety:	Asbestos	No asbestos		HJ/T206, ISO 22262-1,NIOSH 9002
	Initiating odor	No Irritating odor		ASTM C665-06
	Bacteria	No Bacteria		ASTM C1338-08
Odor Emission	No perceptible odour present			ASTM C665-06
Fungi Resistance	Does not encourage growth of fungi			ASTM C1338
Compliance to standard	ASTM C547 "Standard specification for mineral fibre pre-formed pipe insulation" Type I & II			
Shot Content	> 250μm < 8 wt%			IS 3144
	>500μm <3 wt%			

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