



# ROCKWOOL RockTech Section Pipe Insulation



## General Product Information

ROCKWOOL stone wool products are mainly made of natural stone.

ROCKWOOL stone wool is mainly made from natural stone. The selected stone are melted in a cupola at approximately 1450°C, and the molten lava is fiberized by a spinner. The fibers are then coated with a thermosetting binder which bonds the fibers into a mat. The mat is then cut into suitable sizes for ease of handling and installation. Other products such as wired blanket, pipe cover or faced products are produced by secondary processes.

ROCKWOOL RockTech series is an environmentally friendly product with excellent properties of fire safety, water repellency, thermal efficiency, acoustical comfort etc.

ROCKWOOL RockTech SPI complies with Chinese and international standards of GB 11835, GB 50264, DL/T 5072, SH 3010, ASTM C547 and JIS A9504.

# ROCKWOOL RockTech SPI

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## Common Applications

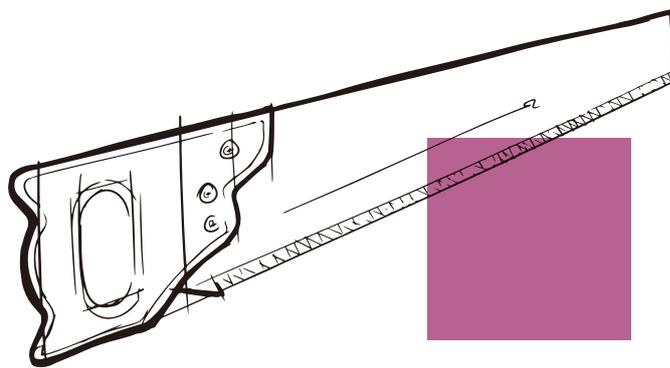
RockTech SPI is particularly designed to meet the specific thermal insulation, fire protection and sound attenuation requirements for large process pipework. RockTech SPI contributes greatly to conserving energy, keeping process temperature, providing personnel protection, preventing condensation and reducing noise.

## Facings

RockTech SPI can be faced with aluminum foil or glass tissue.

## Packaging and Storage

RockTech SPI products are packed in cardboard cartons or poly bag as appropriate. The number of sections per pack depends on the size of the section. The product should be stored indoor or under a waterproof covering. The product should not be placed directly on floor to avoid ground moisture from entering into the product.



ROCKWOOL is the world's leading supplier of stone wool innovative products and systems, dedicated to improving the environment and people's quality of life.

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## Dimensions

Dimensions	Range
Internal Diameter (Nominal Pipe Size)	22mm – 612mm (1/2" – 24")
Thickness Range	30mm – 150mm
Length	1000mm

Note on Dimensions: Two dimensions must be specified when ordering pipe insulation—the outside diameter of the pipe and the insulation thickness. Pipes manufactured to different dimension standard i.e. steam, API, copper, etc) may differ in the outside diameter for a given nominal bore. In order to ensure a joint free laying of the insulation, it is important that you know the actual external diameter of the pipe as there are an immense number of pipe dimensions.

## Handling and Installation

RockTech SPI products are lightweight and easy to handle. To cut the product, it only requires a sharp knife with serrated edge or a hand saw, measuring tape and steel ruler. RockTech SPI should be secured in position using wire or metal bands in accordance with the manufacturer's recommendations and protected by metal cladding, mastic or other suitable coatings if required.

Further information can be obtained from our local sales representatives.



## Supplementary Product——ROCKWOOL Loose Wool

### General Product Information

Loose Wool is a robust thermal insulation especially suited for irregularly shaped vessels and surfaces. It consists of long, fine fibres spun from molten natural stone with a small amount of dust suppression agent. Loose wool is supplied in polythene bags with nominal weight of 12.5kg. The product shall be stored indoor and kept out of moisture.



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## Technical Parameters

	RT-WM450	Unit	Standards
Density	120	Kg/m <sup>3</sup>	GB/T 5480.3
Thermal Conductivity <sup>1</sup>		W/mK	GB/T 10294, GB/T 10296
70 C	0.040	-	-
100 C	0.044	-	-
150 C	0.049	-	-
200 C	0.054	-	-
250 C	0.066	-	-
300 C	0.069	-	-
350 C	0.078	-	-
400 C	0.088	-	-
Maximum Service Temperature	750	C	GB/T 17430, GB50264
Recommended Service Temperature <sup>2</sup>	650	C	ASTM C411-05, ASTM C447-03, GB50264
Surface Burning Characteristic	-	-	-
FSI	0	-	ASTM E84-10
SD	≤25	-	ASTM E84-10
Fire Performance	Non-combustible, reaction to fire Class A1	-	GB 8624, EN13501-1, BS 476 Part4
Water Vapor Sorption (% by Weight)	≤1%	-	ASTM C1104/1104M
Water Vapor Sorption (% by Volume)	≤1%	-	ASTM C1104/1104M
Chloride Content <sup>3</sup> (option available)	≤10	ppm	GB/T 17393, ASTM C871-08
Water Repellency (option available)	>99%	-	GB/T 10299
Health & Safety	-	-	-
No asbestos	No asbestos use in the manufacture	-	HJ/T206, ISO 22262-1, NIOSH 9002
Odor Emission	No perceptible odor present	-	ASTM C665-06
Fungi Resistance	Does not encourage growth of fungi	-	ASTM C1338-08
Other Relevant Standards	GB 11835 <Rock wool, slag wool and it's products for thermal insulation> GB 50264 <Code for design of industrial equipment and pipeline insulation engineering > ASTM C547 <Standard Specification for Mineral Fibre Pre-Formed Pipe Insulation> type I & II JIS A9504 <Man made mineral fibre thermal insulation materials> SH3010 <Design code of equipment and piping insulation for petrochemical enterprises> DL/T 5072 <Code for designing insulation and painting of fossil fuel power plant>		

### Notes:

1. Thermal conductivity of RockTech SPI series products are tested under mean temperature, comply with GB/T 10294 <Thermal insulation-Determination of steady-state thermal resistance and related properties-Guarded hot plate apparatus>. Results may be different when tested according to ASTM C177 due to difference in test method and conditions.
2. Recommended Service Temperature is based on maximum service temperature minus 100°C.
3. Product with chloride content ≤10ppm is available. Please consult our local sales representative for more information.

## ROCKWOOL

Factory: 3 Taihua St, Yonghe Dist of Guangzhou Econ & Tech Development Dist, Guangzhou, Guangdong Province, P.R.C.

No.5, 4th Keyan Rd, Yizheng Econ & Tech Development Zone, Jiangsu Province (211400)

ROCKWOOL China Hotline: 400 665 0505

Beijing: (+86) 10 6590 6077      Shanghai: (+86) 21 6211 6725  
 Guangzhou: (+86) 20 3839 3636      Hong Kong: (+852) 2754 0877  
 Taiwan: (+886) 4 2253 6866      Philippines: (+63) 2 7710 650

www.rockwool.com.cn



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