



RockTech SPI

General Product Information

ROCKWOOL stone wool products are made of basalt, a volcanic stone.

ROCKWOOL stone wool products are non-combustible with a melting point of approximately 1000°C. They are particularly suitable for thermal insulation, fire protection and sound reduction/absorption.

ROCKWOOL stone wool is inorganic and contains no nutritious substance. Therefore it will not be attacked by microorganisms. Stone wool will not rot and does not attract vermin.

No CFCs, HFCs, HCFCs, or asbestos are used in the manufacture of ROCKWOOL stone wool products.

Common applications

RockTech SPI is supplied as a one piece section of convenient length. Slit along the longitudinal axis for ease of application, the section readily snap closed into position over the pipe. The sections are molded to ensure a firm fit around the piping and the outer surface is ground to ensure the correct insulation thickness is achieved.

RockTech SPI is particularly suitable for both hot piping to conserve energy, maintain process temperatures, provide personnel protection, preventing condensation and to reduce noise emission.

RockTech SPI

Dimensions

Nominal pipe size (NPS) inches	Internal diameter pipe insulation (ASTM C585-10) mm
½	22
¾	27
1	34
1 ¼	43
1 ½	49
2	61
2 ½	74
3	90
3 ½	102
4	115
4 ½ (Only available in Rayong factory)	128
5	143
6	170
7	196
8	221
9	246
10	275
11	300
12	326
14	358
16	408.8
18	459.6
20	510.4
22	561.2
24	612
26	662.8
28	713.6
30 (Only available in Bukit Raja factory)	764.4
32 (Only available in Bukit Raja factory)	815.2

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. RockTech SPI pipe insulation internal diameter are documented in accordance to ASTM C585-10 standard. 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.

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.

Technical Parameters

	RockTech SPI 120	RockTech SPI 150	Standards
Dimensions			
Thickness tolerance	+/-3mm	+/-3mm	EN823
Length tolerance	+/-3mm	+/-3mm	EN822
Density	120kg/m³	150kg/m³	ASTM C302
Thermal Conductivity			ASTM C335
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	
350°C	0.082W/mK	0.077W/mK	
Hot Surface Performance	650°C	650°C	ASTM C411/ASTM C447
Linear Shrinkage at 650°C	<2%	<2%	ASTM C356
Surface Burning Characteristic			ASTM E84
FSI	0	0	
SD	25	25	
Water Absorption (partial immersion)	<0.1kg/m²	<0.4kg/m²	BS EN13472
Water Vapor Sorption	<0.1% volume	<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:			
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		

Note: ROCKWOOL is able to produce products in low chloride content, please consult your local sales or technical representatives for further details.



www.rockwoolasia.com

ROCKWOOL Malaysia Sdn Bhd
Lot 4, Solok Waja 1
Bukit Raja Industrial Estate
41050 Klang, Selangor
Malaysia
T (+60) 3 3341 3444
F (+60) 3 3342 7290

ROCKWOOL Malaysia Sdn Bhd
175 A&B
Kawasan Perindustrian
Air Keroh, Jalan Lingkungan
Usaha, 75450 Melaka
Malaysia
T (+60) 6 233 2010
F (+60) 6 233 2012

ROCKWOOL (Thailand) Limited
Hemaraj Eastern Industrial
Estate (Map Ta Phut)
1 Soi G 2, Pakornsongkrohraj
Road, Huaypong, Muang
Rayong 21150
Thailand
T (+66) 3868 5110
F (+66) 3868 4938

Disclaimer: The information contained in this data sheet is believed to be correct at the date of publication. ROCKWOOL does not accept responsibility for the consequences of using RockTech SPI in applications different from those described above.