

RockTech SPI



General Product Information

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

ROXUL 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.

ROXUL 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 ROXUL 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.

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Dimensions

| Nominal pipe size (NPS) inches | Internal diameter pipe insulation (ASTM 585-10) mm |
|---|--|
| 1/2 | 22 |
| 3/4 | 27 |
| 1 | 34 |
| 1 1/4 | 43 |
| 1 1/2 | 49 |
| 2 | 61 |
| 2 1/2 | 74 |
| 3 | 90 |
| 3 1/2 | 102 |
| 4 | 115 |
| 4 1/2 (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 585-10 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/m ³ | 150kg/m ³ | 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 | |
| Chloride Content | <=10ppm | <=10ppm | ASTM C871 |
| Water Absorption (partial immersion) | <0.1kg/m ² | <0.4kg/m ² | 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: The information contained in this data sheet is believed to be correct at the date of publication. ROCKWOOL Asia does not accept responsibility for the consequences of using RockTech SPI in applications different from those described above.

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