

ECOWOOL SPI

ECOWOOL SECTIONAL PIPE INSULATION (SPI) is manufactured from rigid glass mineral wool pre-moulded into one-piece cylindrical sections. These sections are slit along one wall to allow the insulation to be opened and installed over piping. The combination of these materials creates an easily installed, compression-resistant pipe insulation with high thermal efficiency, exceptional sound absorption properties and an increased operating temperature limit. The sectional pipe insulation is available in 1 meter length with a variety of wall thickness to suit standard steel pipes and copper tube, from 12.7mm to 355mm O.D.

APPLICATION

It is designed to be used on commercial, power or process lines where fire safety and a pleasant appearance are desired. The pipe insulation can be used on cold and chilled water lines, brine, refrigerant and special process lines when the joints are sealed to prevent moisture migration.

Cold Applications

To prevent the ingress of water vapour and subsequent potential condensation or freezing problems, all pipe insulation requires an effective vapour barrier. ECOWOOL SECTIONAL PIPE INSULATION (SPI) is available in with either Foil Scrim Kraft, Foil Reinforced Kraft Paper, Aluminium Glass Cloth or Kraftless Foil pre-applied to the sections for this purpose.

Hot Applications

ECOWOOL SECTIONAL PIPE INSULATION (SPI) does not require a facing for hot work. However, a metal cladding (generally swaged galvanised or aluminium metal sheathing) is recommended on all outdoor applications, or on indoor applications where protection from physical damage is required.

FEATURES AND BENEFITS

Sustainable product. ECOWOOL SECTIONAL PIPE INSULATION (SPI) is free from CFCs, HCFCs and any material with ozone depletion potential (ODP) in their manufacture/composition content, which are harmless to the environment. ECOWOOL SECTIONAL PIPE INSULATION (SPI) is compliant with most green rating tools including ODP emission credit requirements. Air quality is unaffected with total volatile organic compound (VOC) emissions below quantifiable levels.

Mould-free. Does not encourage growth of mould, fungus or bacteria. Tested in accordance with ASTM C665, Section 13.9.

Alkalinity. pH 9.

Low water vapour absorption. Absorbs <0.02% by volume. Tested in accordance with ASTM C553.

Maximum service temperature. Manufactured to withstand temperatures of up to 340°C. Where facings are applied, the temperature tolerance of the facing adhesive limits the surface temperature to 70°C.



PERFORMANCE

Fire safety properties. Tested in accordance with:

- B.S. 476: Part 6 Fire propagation
- B.S. 476: Part 7 Surface spread of flame

ECOWOOL SECTIONAL PIPE INSULATION (SPI) exhibits the following characteristics when tested in accordance with AS1530 Part 3.

- Ignitability Index 0
- Spread of Flame Index 0
- Heat Evolved Index 0
- Smoke Developed Index 0-1

Thermal conductivity. Tested in accordance with ASTM C518 at 23°C mean temperature. K-Value : 0.0312 W/mK.

AVAILABLE FORM

Physical characteristic

Nominal Density (kg/m³): 64, 80, 96

Thickness (mm): 20, 25, 30, 32, 38, 40, 50, 60, 65, 70, 75

Factory applied jacket

Available in the following type of factory applied jacket where extra protection of the outer surface or condensation control is required.

- FSK – Foil Scrim Kraft
- FRK - Foil Reinforced Kraft Paper
- Aluminium Glass Cloth
- Kraftless Foil

PRODUCT AVAILABLE

Manufactured in 1 metre length and in a range of thicknesses to enable compliance with BS5422 and beyond. The pre-formed pipe sections are produced to fit all British Standard steel and copper pipe sizes.

TYPE	COPPER		STEEL			OTHERS		
	S	M	S	M	L	S	M	L
OD (mm)	16	67	21.5	76.1	141.1	12.7	63.5	127.1
	22		26.9	88.8	168.5	19.1	73	152.4
	28.7		33.8	101.5	219	25.4	108	193.7
	35		42.2	114.2	273.5	31.8	113.5	
	54		48.4		324	38.2		
			60.4		355	50.8		

Note:

Available thickness (mm): 20, 25, 30, 32, 38, 40, 50, 60, 65, 70, 75

Technical specifications as shown in this literature are intended to be used as general guidelines only. The physical and chemical properties of the glass mineral wool insulation listed herein represent typical average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. The suitability of the product is not binding for special individual cases. Warranty and liability upon delivery shall be in accordance with our General Terms and Conditions. No responsibility is assumed for the correctness of this information.

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