TECHNICAL DATA SHEET

POLYWOOL SPI

Glass Mineral Wool Insulation

DESCRIPTION

POLYWOOL 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 an with a variety of wall thickness to suit standard steel pipes and copper tube from 12.7mm to 355mm O.D.

APPLICATIONS

It is designed to be used on commercial, power or process lines where fire safety and a pleasing 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 POLYWOOL SECTIONAL PIPE INSULATION (SPI) is available in with either Foil Scrim Kraft, Foil Reinforced Kraft Paper, Sisalation Foil or Kraftless Foil pre-applied to the sections for this purpose.

Hot Applications

POLYWOOL 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.

PHYSICAL CHARACTERISTICS

Nominal Density (kg/m^3): 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
- Sisalation Foil
- Kraftless Foil

MAXIMUM SERVICE TEMPERATURE

The maximum service temperature for POLYWOOL SECTIONAL PIPE INSULATION (SPI) is 340ºC. Where facings are applied, the temperature tolerance of the facing adhesive limits the surface temperature to 70ºC.

SUITABILITY FOR STAINLESS STEEL

POLYWOOL SECTIONAL PIPE INSULATION (SPI) Will not cause or accelerate corrosion of steel, stainless steel, copper or aluminum due to its specifically inorganic and mineral composition. Tested in accordance with ASTM C665.

MOISTURE ABSORPTION

Absorbs 0.25% by weight. Tested in accordance with ASTM C553.

ALKALINITY

POLYWOOL SECTIONAL PIPE INSULATION (SPI) products receive a rating of pH9 (pH7 is neutral). They will not promote or accelerate the corrosion of steel or galvanised steel studs provided they are protected from external contamination.

MOULD GROWTH

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

FIRE PROPERTIES

Tested in accordance with:

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

AS1530.3 EARLY FIRE HAZARD PROPERTIES OF MATERIALS

POLYWOOL 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

The thermal conductivity of POLYWOOL SECTIONAL PIPE INSULATION (SPI) is 0.0312 W/mK. Complies with ASTM C518 at 23°C mean temperature.

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SUSTAINABLE PRODUCT

POLYWOOL SPI is free from CFCs, HCFCs and any other material with ozone depletion potential in their manufacture/composition content, and represent no known threat to the environment. Made from nearly 80% recycled glass and locally sourced raw materials, POLYWOOL SPI range of glass mineral wool is perfectly in tune with sustainability and environmental concerns. POLYWOOL SPI is compliant with most green rating tools ODP Emissions credit requirements. Air quality is maintained with total Volatile Organic Compound (VOC) emissions below quantifiable levels.

PRODUCTS 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		
SIZE	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

Solely distributed in New Zealand by :

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