

Characteristics and Advantages

- Low Thermal Conductivity makes it a superb insulation material for cooling or heating systems.
- An Operating Temperature that ranges between -40°C to +80°C.
- Lowest water absorption and vapour transmission. The dense cell structure provides an
 excellent vapour barrier for preventing condensation or frost formation on chilled water
 pipelines or refrigerant lines. It also retards
 heat loss for hot water pipelines and heating systems.
- High resistance to most chemicals and which makes it ideal for protecting pipelines from corrosion by external atmostpheric factors.
- High flexibility and smooth surface of the Insulation Foam Tube enables quick, easy installations and a neat finished appearance.
- CFC free
- Helps retard vibration and resonance of the pipelines during operation



Installation and Application Recommendations

1. Pre-Assembling Line

Installing the Insulation Foam Tube on the pipeline is fast and easy. To install, just insert and slip the Insulation Foam Tube over the copper or iron pipe.

The Insulation Foam Tube can be easily cut with a cutting blade and knife. To join the Insulation Foam Tubes, apply

a coat of adhesive glue to both butt ends. Allow the adhesive glue to set until non-tacky to the touch and then press the joints firmly together.

For a perfect finish, we recommend using PVC adhesive tapes or aluminium tapes on joints and seams.

2. For existing pipelines

To install the Insulation Foam Tube on existing pipelines, just slit the tube lengthwise on one side and snap over the copper or iron pipe. Then seal the slit surface and butt joints with adhesive glue.

Wall thickness of Insulation Tubes recommended to control condensation in pipe insulation of cooling lines:

In general, selection of the types of wall thickness of the insulation tubes largely depend on two main factors: the external weather temperature and atmospheric humidity conditions where the pipelines are installed.

 i. Insulation under frequent low humidity and normal weather conditions (Weather Temperature of < 28°C)

To maintain pipeline temperature	Recommended wall thickness	
> 5°C	10 mm; 13 mm	
< 5°C	19 mm; 25 mm	

 ii. Insulation under frequent high humidity and high external weather conditions (Weather Temperature of > 28°C)

Recommended

wall thickness

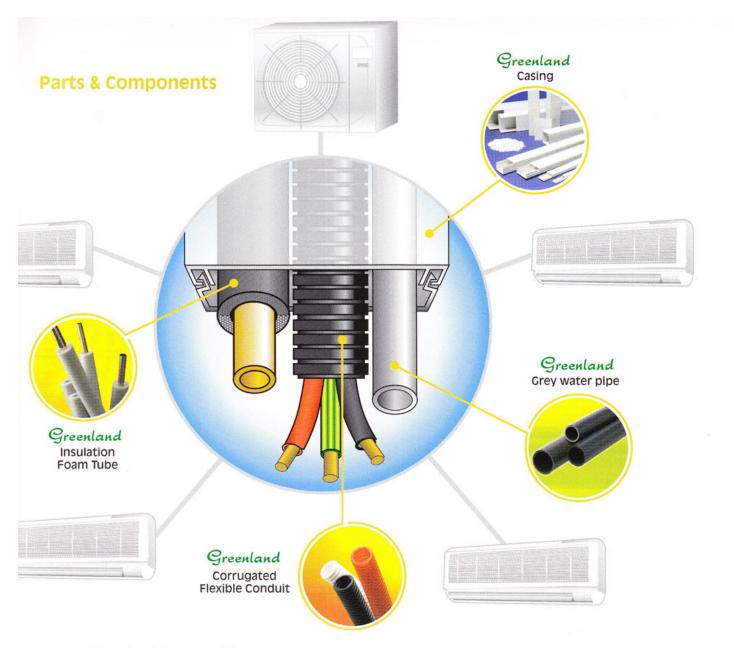
13 mm; 19 mm

19 mm; 25 mm

	To maintain pipeline temperature	
	> 5°C	
366	> 5°C < 5°C	
	in different siz	

nsulation Foam Tube comes in different sizes to accomodate the pipelines.





Physical Properties

Average Physical Properties	Rating
Density	0.15 – 0.2 g/cm ³
Cellular Structure	Fine, Close
Colour	Silvery Grey
Temperature Range	-40°C to + 80°C
Permeability	± 0.27.10 ¹² m/s
Water absorption in volume % at 23°C	After 7 days approx. 1.5% / 28 days approx. 2.0%
Water Vapour Diffusion resistance	Good
Ozone resistance (ASTM D 1171)	Excellent
Odour	Neutral
Chemical resistance (ASTM 543-56T)	Excellent
Ageing	Not Evident at 100°C
Flexibility	Good to - 40°C
Thermal Stability	Shrinkage < 1%
Toxicity in fire	None, virtually
Smoke Emission	Upon complete combustion: 99% c02 en h20
Fire-rating	Meets the fire classification requirement of BS 476: Part 7

Insulation tube Sizes

I.D. Size (IPS)	I.D. (mm)	3/8" Wall (10 mm)	1/2" W <mark>all (13 mm)</mark>	3/4" Wall (19 mm)	1" Wall (25 mm
1/4"	6	150 (1006)	100 (1306)	50 (1906)	
3/8"	10	110 (1010)	80 (1310)	40 (1910)	30 (2510)
1/2" (1/4 IPS)	13	90 (1013)	70 (1313)	35 (1913)	27 (2513)
5/8" (3/8" IPS)	16	80 (1016)	60 (1316)	30 (1916)	25 (2516)
3/4"	19	70 (1019)	50 (1319)	30 (1919)	22 (2519)
7/8" (1/2" IPS)	22	60 (1022)	45 (1322)	28 (1922)	20 (2522)
1" (3/4" IPS)	25	50 (1025)	40 (1325)	25 (1925)	20 (2525)
1 1/8"	28	46 (1028)	35 (1328)	25 (1928)	18 (2528)
1 1/4"	32	40 (1032)	30 (1332)	20 (1932)	16 (2532)
1 3/8" (1" IPS)	35	35 (1035)	28 (1335)	20 (1935)	15 (2535)
1 1/2"	38	32 (1038)	25 (1338)	18 (1938)	12 (2538)
1 5/8" (1 1/4" IPS)	42	28 (1042)	25 (1342)	16 (1942)	12 (2542)
1 7/8" (1 1/2" IPS)	48	25 (1048)	20 (1348)	15 (1948)	10 (2548)
2"	51	22 (1051)	20 (1351)	12 (1951)	9 (2551)

Tube Length: 1.83 metre length (6 feet)

Standard Carton Size:

1850 mm x 380 mm x 305 mm

Other Products

Foamrods

- Foamrods are round expanded polyethylene profiles that are available in various diameters used to fill up expansion joints.
- Diameters available from 6mm to 50mm
- The excellent material properties will allow you to save on sealant used to close the expansion joints
- Foamrods are highly durable and have long lasting flexibility



Our Quality, Your Satisfaction

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