

THERMOBREAK[®] tube

PIPE INSULATION



A preformed closed cell physically crosslinked polyolefin foam tube insulation with reinforced foil facing for steel, plastic and copper pipes.

SEKISUI

FOAM
INTERNATIONAL
Global Foam Solutions

PHYSICALLY
CROSSLINKED
SEKISUI TECHNOLOGY

THERMOBREAK[®] tube

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Premium performance pipe insulation offering lower installation costs and *maximum energy savings*



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Product Description

- Completely closed cell, physically crosslinked foam pipe insulation.
- Heat bonded factory applied reinforced aluminium foil.
- Pre-slit for faster installation.
- Flexible, tough and durable.
- Excellent compression resistance due to its crosslinked foam structure.
- Superior insulating properties compared to other flexible closed cell foams.
- Very high vapour diffusion resistance Class 1 Vapour Retarder under ASHRAE 2009.
- No cladding required for internal applications
- Conforms to ISO 5659-2 "Smoke Density and Toxicity".
- Anti-Microbial.
- Green Star Compliant Product (VOC).
- Complies to NFPA 90A & NFPA 90B.

Size Availability

Wall thickness (mm)	Min ID (mm)	Max ID (mm)	IPS Max (in)
9mm / 13mm	7.0	50	1½"
15mm / 20mm / 25mm	7.0	273	10"
30mm / 35mm	9.5	254	10"
40mm/50mm/55mm	12.7	219	8"
50mm/55mm/60mm* (*Dual Layer)	254	pls. enquire	

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Physical Properties

Material: Physically (irradiation) crosslinked polyolefin foam with factory applied reinforced foil.

Physical Property Requirements (ASTM C1427)	Complies (Type I –Tubular)
Density:	25kg/m ³ (foam core only)
Thermal Conductivity: (ASTM C518)	0.032 W/m ² /K (@ 23°C mean temperature)
Water Vapour Permeability: (ASTM E96)	2.3 X 10 ⁻¹⁵ kg/Pa.s.m
Water Vapour Permeance: 12mm thickness	0.000195 µg/N.s
Permeability Resistance Factor:	µ>80,000
Water Absorption by Volume: (ASTM C1763, Procedure B, 24H)	< 0.2% v/v
Resistance to Fungi: (ASTM G21)	Zero Growth
Ozone Resistance:	Excellent
UV Resistance:	Excellent
Operating Temperature :	-80° C to 100° C
Leachable Chlorides (ASTM C871)	< 12 ppm (< 0.0012% w/w)

Fire and Smoke Behaviour

BS 476 Part 6 & 7	Class 0
AS/NZS1530.3 (1999)	
Spread of Flame Index:	0
Heat Evolved Index:	0
Ignitability Index:	0
Smoke Developed Index:	0-1
ASTM E 84	Complies to: Flame Spread Index <25 Smoke Index <50
NFPA 90A & NFPA 90B	Complies with requirements
ISO 5659-2 (1994)	
Smoke Density	D _m < 200
Smoke Toxicity	Satisfies max allowable concentrations for the following combustion gases CO, HCl, HBr, HF, HCN, NO _x , SO ₂
BS 6853 Annex B Complies to:	Smoke Toxicity, Index R <1.0
EN ISO 11925 Reaction to Fire	Complies (Euroclass E)

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