

# THEMORBREAK<sup>®</sup> tube

## PIPE INSULATION



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

**SEKISUI**

**FOAM**  
INTERNATIONAL  
Global Foam Solutions





***THERMOBREAK<sup>®</sup> tube***

***PIPE INSULATION***







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





# THERMOBREAK<sup>®</sup> tube

## PIPE INSULATION



### 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.
- Developed and Manufactured in Australia

### Size Availability

Wall thickness (mm)	Min ID (mm)	Max ID (mm)	IPS Max (in)
15mm	7.0	273.0	10"
20mm	7.0	273.0	10"
25mm	7.0	273.0	10"
30mm / 35mm	9.5	254.0	8"
40mm / 50mm / 55mm	12.7	219.2	8"

Tube length: 2 metres  
(Other lengths available on request)

Distributed by

### Technical Data

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

Density:	25kg/m <sup>3</sup> (foam core only)
Thermal Conductivity: (ASTM C518)	0.032 W/m <sup>2</sup> /K (@ 23°C mean temperature)
Water Vapour Permeability: (ASTM E96)	8.19 X 10 <sup>-15</sup> kg/Pa.s.m (0.029 mg.m/N.h)
Water Vapour Permeance:	3.3 X 10 <sup>-4</sup> g/MN.s
Permeability Resistance Factor:	μ>20,000
Water Absorption by Volume: (JIS K 6767)	< 0.1% v/v (0.00038 g/cm <sup>2</sup> )
Resistance to Fungi: (ASTM G21)	Zero Growth
Ozone Resistance :	Excellent
UV Resistance:	Excellent
Operating Temperature :	-80° C to 100° C

### Fire and Smoke Behaviour

BS 476 Part 6 & 7	Class 0
AS1530.3(1999)	
Spread of Flame Index:	0
Heat Evolved Index:	0
Ignitability Index:	0
Smoke Developed Index:	0-1
UL 94	HF-1
ASTM E 84	Complies to: Flame Spread Index <25 Smoke Index <50
FM 4924	Approved (up to 12" IPS & 50mm wall thickness)
NFPA 90A & NFPA 90B	Complies with requirements
ISO 5659-2 (1994)	
Smoke Density	D <sub>m</sub> < 200
Smoke Toxicity	Satisfies max allowable concentrations for the following combustion gases CO, HCl, HBr, HF, HCN, NO <sub>x</sub> , SO <sub>2</sub>
BS 6853 Annex B	Complies to: Smoke Toxicity Index R <1.0

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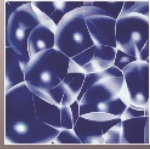
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# THERMOBREAK™

## Thermal Insulation



### Lowest thermal conductivity among flexible insulation

Thermal conductivity - 0.032 W/mK • (@23°C mean temp, 50%-70% RH)  
Over 18% better than chemically crosslinked polyolefin foam



### Almost zero water vapour permeability and absorption for effective condensation control

Due to its closed cell structure and additional foil facing, Thermobreak is classified under British standards, as a vapor barrier itself.



### Superior physical barrier protection

Thickest 9um pure aluminum foil facing and factory applied strong reinforcement weave.



### Extensive fire and smoke testing and certification

All fire and smoke tests are certified by international independent laboratories.



### Repositionable and reworkable adhesive

Unlike rubber-based adhesive, Thermobreak adhesive is repositionable providing ease of installation with excellent tack on metal surfaces.

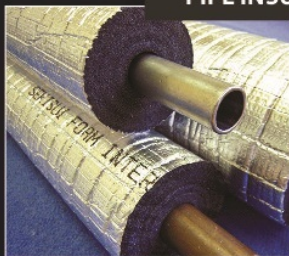


### Faster installation

The "All in One" system enables fast and easy installation thus providing significant installation savings and a superior job finish. No additional vapour barriers, coatings or mechanical fasteners are required.

## APPLICATIONS:

### PIPE INSULATION



### DUCT INSULATION



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