

# **THERMOBREAK<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

**PHYSICALLY**  
**CROSSLINKED**  
SEKISUI TECHNOLOGY

# **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) |
|----------------------------------|-------------|--------------|--------------|
| 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*<br>(*Dual Layer) | 254         | pls. enquire |              |

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### Technical Data

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

|                                             |                                                      |
|---------------------------------------------|------------------------------------------------------|
| Density:                                    | 25kg/m <sup>3</sup> (foam core only)                 |
| Thermal Conductivity:<br>(ASTM C518)        | 0.032 W/m <sup>2</sup> /°K (@ 23°C mean temperature) |
| Water Vapour Permeability:<br>(ASTM E96)    | 2.3 X 10 <sup>-15</sup> kg/Pa.s.m                    |
| Water Vapour Permeance:<br>12mm thickness   | 0.000195 µg/N.s                                      |
| Permeability Resistance Factor:             | µ>80,000                                             |
| Water Absorption by Volume:<br>(JIS K 6767) | < 0.1% v/v (0.00038 g/cm <sup>3</sup> )              |
| Resistance to Fungi:<br>(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                                                                                                                                      |
| ASTM E 84                    | Complies to:<br>Flame Spread Index <25<br>Smoke Index <50                                                                                |
| FM 4924<br>(130546)          | Approved (up to 12" IPS &<br>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<br>for the following combustion gases<br>CO, HCl, HBr, HF, HCN, NO <sub>x</sub> , SO <sub>2</sub> |
| BS 6853 Annex B Complies to: | Smoke Toxicity<br>Index R <1.0                                                                                                           |

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