

THERMOBREAK[®] No-Clad

ULTRA TOUGH, EASY TO FABRICATE



Closed cell, physically crosslinked polyolefin foam insulation with ultra tough foil facing to prevent mechanical damage in high risk areas.

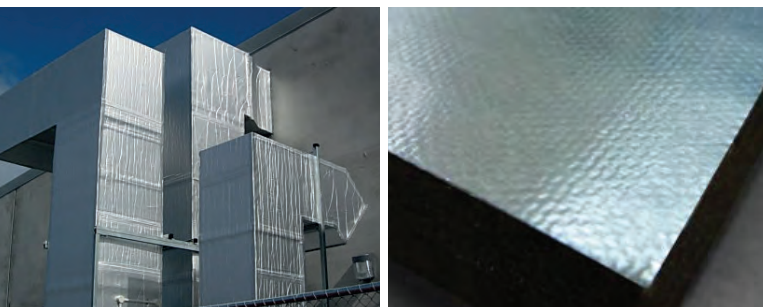
SEKISUI

FOAM
INTERNATIONAL
Global Foam Solutions

PHYSICALLY
CROSSLINKED
SEKISUI TECHNOLOGY

THERMOBREAK[®] No-Clad

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Product Description

Thermobreak[®] No-Clad is designed as a cost effective alternative to cladding of pipe and duct insulation to prevent mechanical damage. It differs from standard Thermobreak[®] in that the aluminium foil is a puncture resistant multilayer consisting of:

- A salt-water resistant, UV and weather durable coating.
- The aluminium foil is reinforced with a ultra tough, close weave scrim.
- The flexible closed cell physically crosslinked polyolefin foam underneath allows for distribution of impact force so inhibiting mechanical damage to the insulation.

Although designed to be resistant to mechanical damage, Thermobreak[®] No-Clad has been designed for easy fabrication using sharp knives.

System Accessories

No Clad Foil Tape

A specially developed UV and salt-water resistant reinforced aluminium foil tape is available to ensure system integrity.

Size Availability

Thermobreak[®] No-Clad is available in a range of sizes for pipes and ducts.

Tube: Standard pipe OD's from 25mm to 273mm, with wall thicknesses of 25mm and 50mm. For other wall thicknesses please speak to your Sekisui Foam representative

Sheets: Available in sheets 1200mm X 2400mm in Thicknesses of 25mm to 50mm

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Technical Data

Material: Physically (irradiation) crosslinked closed cell polyolefin foam with factory applied, heavy duty multilayer composite with a specially developed UV and weather durable coating.

Density: 25kg/m³ (foam core only)

Thermal Conductivity: 0.032 W/mK (@ 23° C mean temperature)
(ASTM C518)

Puncture Resistance: >400 N
(ASTM D4833)

Tear Testing: > 60 N MD
(ASTM D751) > 50 N CD

Tensile Testing: > 1000 N MD
(ASTM D751) > 900 N CD

MD= Machine Direction, CD=Cross Direction

UV & Weathering (3000 hr QUV exposure): Excellent
No change in performance or appearance

Salt Resistance (Internal test): No visible change in appearance
(2 week immersion in 5 % salt solution)

Water Vapour Permeability (ASTM E96): 2.3 X 10⁻¹⁵ kg/Pa.s.m

Water Vapour Permeance: 0.000195 µg/N.s
12mm thickness

Permeability Resistance Factor: µ > 80,000

Water Absorption by Volume: 0.03% v/v (0.00038g/cm²)
(JIS K6767)

Resistance to Fungi: Zero Growth
(ASTM G21)

Ozone Resistance: Excellent

Operating Temperature: -80° C to 100° C

Fire and Smoke Behaviour: BS 476 Part 6&7 Class 0

AS1530.3(1999)
Ignitability index: 0
Spread of Flame Index: 0
Heat evolved Index: 0
Smoke Develop Index: 0-1

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