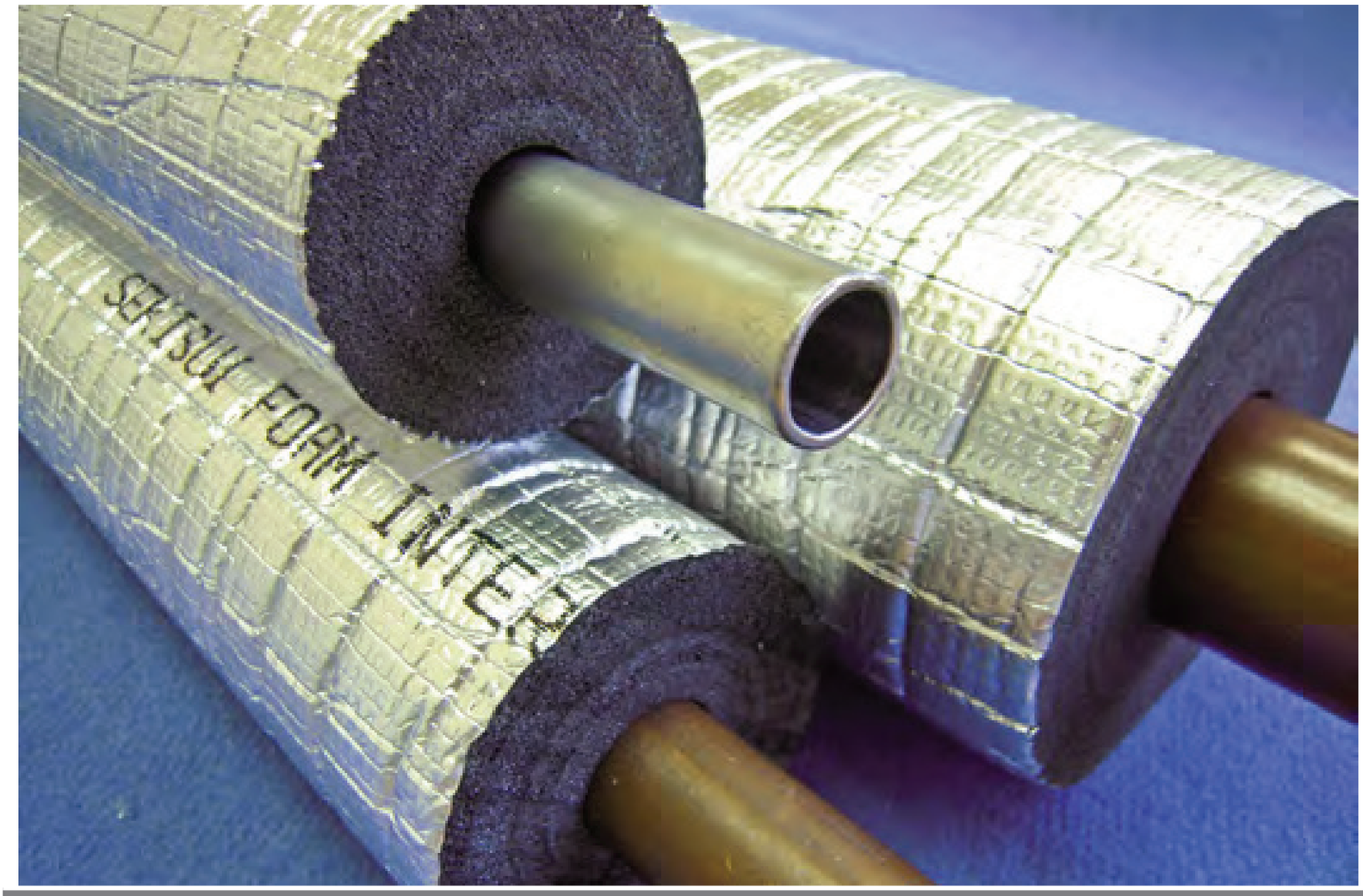
NEXUS FOAMS

THERMOBREAK® 9705

ISO 9705 Tested Insulation



Foil faced closed cell physically crosslinked polyolefin foam insulation that is tested and classified in accordance with ISO 9705 Full Scale Room Fire Test.

SMOKE & FIRE RATED

ANTI MICROBIAL

GREEN STAR COMPLIANT

THERMOBREAK® 9705

ISO 9705 Tested Insulation

WHERE CAN THERMOBREAK® 9705 BE INSTALLED?

Below are the new surface requirements outlined in the Acceptable Solution 2 to Clause C 'Protection from fire' to the New Zealand Building Code. As per the new requirements, some of the areas such as Exitways and HVAC ducting must be lined with a 1S rated product. Wall and ceiling materials in sleep spaces (not households) must be lined with either a 1S or 2S product.

Application	Exitways All occupied space in importance level 4 building	Wall materials in sleeping spaces (not in household units)	Ceiling materials in sleeping spaces (not in household units)	All other occupied spaces including household units: walls and ceilings	Ducts for HVAC systems: internal surfaces	Ducts for HVAC systems; external surfaces Acoustic treatment and pipe insulation with air handling plenum
Maximum permitted Group Number						
Unsprinklered	1S	2S	2S	3	1S	3
Sprinklered	2	3	2	3	2	3
Where can you use Thermobreak 9705	✓	✓	✓	✓	✓	✓

PRODUCT DESCRIPTION

Thermobreak® 9705 is a closed cell, physically crosslinked foam insulation, with factory applied reinforced foil. Thermobreak® 9705 is tested and classified (CSIROCOA#1874) in accordance with ISO 9705 Full Scale Room Fire Test, and provides a means of compliance with relevant fire property requirements of the Building Code of New Zealand and the Building Code of Australia.

BENEFITS

+ Heat bonded factory applied foil
+ Pre-slit for faster installation
+ Superior insulating properties compared to other flexible closed cell foams
+ High vapour resistance
+ Anti-microbial
+ Compliant green star (VOC)
+ Manufactured in Australia

SIZE AVAILABILITY

Thermobreak® 9705 is available in a range of sizes for pipes and ducts.

Tube: Standard pipe OD's from 12mm to 273mm with wall thicknesses up to 55mm

Ducts: Rolls (1200mm wide) from 5mm to 25mm thick
Sheets (1200mm x 2400mm) from 30mm to 50mm thick.

TECHNICAL DATA

Material: Irradiation (physically) Crosslinked closed cell polyolefin foam with factory applied reinforced foil.

Density:	25kg/m3 (foam core only)
Thermal Conductivity: (ASTM C518)	0.032 W/mk @ 23° C mean temperature
Water Vapour Permeability: (ASTM E96)	8.19 x 10-15 kg/Pa.s.m or (0.029 mg.m/N.h)
Water Vapour Permeance:	3.3 x 10-4 g/MN.s
Permeability Resistance Factor:	μ > 20 000
Water Absorption by Volume: (JIS K6767)	<0.1% v/v(0.00038g/cm2)
Resistance to Fungi: (ASTM G21)	Zero Growth
Ozone Resistance:	Excellent
Operating Temperature:	-80° C to 100° C

FIRE & SMOKE CLASSIFICATION

ISO 9705 (25mm):	Group 2 S Classification (BCNZ) Group 2 Classification (BCA)
AS1530.3(1999)	
Spread of Flame Index:	0
Heat Evolved Index:	0
Ignitability Index:	0
Smoke Developed Index:	0-1
BS 476 Parts 6&7:	Class 0