







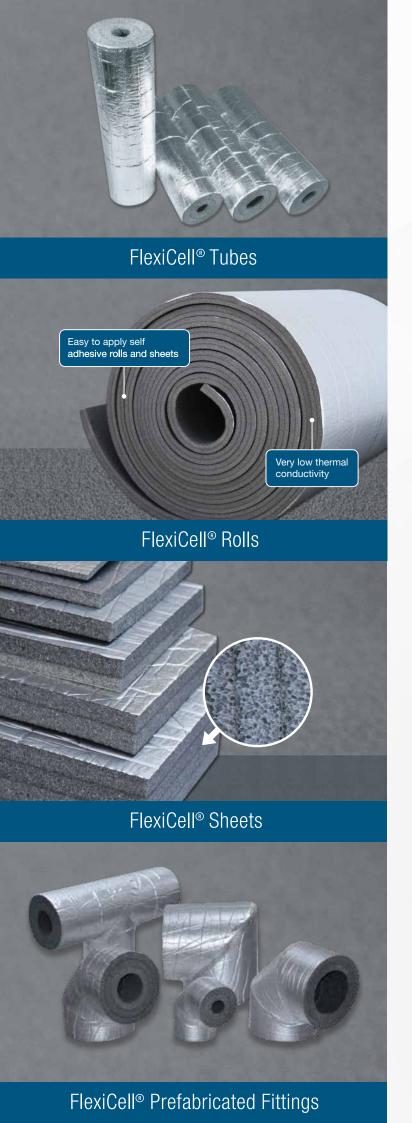




Cross Linked Closed Cell **Polyolefin Thermal Insulation Foam**

with ISO 9705 Rating





FlexiCell® XLPE is a closed cell chemically cross linked polyolefin foam used as thermal insulation to protect against heat loss and condensation.

FlexiCell® XLPE is reinforced with a heat bonded aluminium foil and is available with factory applied adhesive liner.







FlexiCell® XLPE prefabricated fittings are made in different sizes and shapes such as Elbows, T and Y sections.

Prefabricated fittings are available in a variety of wall thicknessess and inner diameters.

FIRE AND SMOKE PERFORMANCE

FlexiCell® XLPE meets AS/NZ 1530.3, FlexiCell® XLPE is tested and classified in accordance with ISO 9705, Full Scale Room Fire Test and can be used for compliance with the building code of New Zealand.



EXCELLENT THERMAL EFFICIENCY

FlexiCell® XLPE has a very low thermal conductivity, guaranteeing high performance in thermal insulation applications. Further to this, as FlexiCell® XLPE is closed cell, it also provides excellent levels of condensation control.



ENVIRONMENTALLY FRIENDLY

FlexiCell® XLPE is a CFC and HCFC free product. It does not contain, nor use in its production, any substances that contribute to Ozone Depletion Potential (ODP). FlexiCell® XLPE is fibre free and has a very low Volatile Organic Compound (VOC) emission level.



ZERO WATER VAPOUR PERMEABILITY

Condensation control is a key performance aspect of any insulation. FlexiCell® XLPE can be installed without any additional vapour barriers due to its closed cell construction, and watertight aluminium foil barrier.

FlexiCell® XLPE's excellent protection against condensation ensures the long term thermal efficiency of the insulation.



QUICK & EASY TO INSTALL

FlexiCell® XLPE is fast and easy to install. It is more flexible than other pipe insulation products, including glasswool, polystyrene and other extruded foams. This results in greatly reduced installation time, thereby affording significantly increased productivity.





TECHNICAL DATA

ISO 9705 RATING

Properties	Value/ Assessment		Tested to:	
Temperature Range				
Max. Line Temperature	+105 °C (+80 °C with PSA*)		DIN EN 14706	
Min. Line Temperature	-80 °C (-30 °C with PSA*)		ASTM C1427	
Our Customer Service Centre should be consulted for applications with temperatures below - 80 °C		,		
Thermal Conductivity	6 mm - 15 mm - 0.034 W/m·K		ASTM C518	
·	20 mm - 60 mm - 0.035 W/m·K			
Density	25 ± 3 kg/m³ (foam core only)		-	
Color	Grey		-	
Water Vapour Permeance [perms]	0		ASTM E96	
Water Absorption	0.00008 g/cm ²		JIS K6767	
Resistance to Corrosion	Excellent		ASTM B117	
Compression Set	35 77% (25mm)		ASTM D3574	
Reaction to Fire	Ignitability	0	AS/NZ 1530.3	
	Spread of Flame	0		
	Heat Evolved	0	AS/NZ 1530.3	
	Smoke Developed	1		
	Average Smoke Prod.: 0.493 m²/sec		ISO 9705	
	(Group 2s Rating)			
	Class O		BS 476 Part 6 & 7	
Smoke Toxicity Levels	Passed		IMO MSC 307(88) Part 2 & 5	
Resistance to Fungi	Excellent		ASTM G21	
Resistance to Bacteria	Excellent		ISO 22196	
Corrosion Risk	No corrosion risk for steel, stainless steel			
	and copper pipes		-	
Chemical Analysis	Chloride content - 0.0018 w/w%		DIN EN 13468	
-	pH - 8.22			
Emission VOC (level)	<4 μg/m²/hr		ASTM D5116	
Environmental Friendly	Size Availability			

Environmental Friendly	
Ozone Resistance	Excellent
Ozone Depletion Potential (ODP)	0
Global Warming Potential (GWP)	<5

Storage life: Can be stored for 24 months (12 months with PSA*) from manufacturing date in a dry, clean, dust free room at normal humidity and ambient temperature.

Free

Note: All outdoor applications of FlexiCell® XLPE need to be protected by FlexiCell® approved paint or weather resistant cladding.

*PSA - Pressure Sensitive Adhesive

CFC & HCFC, Dust, Fibres

Size Availability

Tubes	Insulation Thickness
6 mm to 28 mm	10 mm to 40 mm
32 mm to 125 mm	10 mm to 50 mm
140 mm to 712 mm	20 mm to 50 mm
25 mm to 115 mm	51 mm to 75 mm
125 mm to 712 mm	51 mm to 75 mm

Rolls

A range of sizes are available 3 mm to 25 mm

Sheets

1.20 x 2.4m 12 mm to 63 mm

Pressure sensitive adhesive coating options available.



