Technical Data

Thermobreak® **LS** TUBE

MATERIAL	Physically cross-linked, closed cell polyolefin foam with factory applied reinforced aluminium foil facing.	
	Metric	**Imperial**
Density	25kg/m^3	1.5lb/ft^3
Operating Temperature Range	-80ºC to 100ºC	-112ºF to 212ºF
Thermal Conductivity (ASTM C518)	0.032 W/m.ºK (@23ºC mean temperature)	0.22 BTU.in/h.ft^2.ºF (@ 73ºF mean temperature)
Permeability Resistance Factor (ASTM E96)	μ > 80,000	
ASTM E84 (UL 723)	Complies (NFPA 90A & B) (up to 50mm thickness) Flame Spread Index: ≤ 25 Smoke Develop Index: ≤ 50	
BS 476 (Parts 6 and 7)	Class 0 (up to 50mm thickness)	
VOC Emission Rate (ASTM D5116)	Low VOC	

*Technical data may be plant specific. Please consult the Thermobreak LS Tube Technical Data Sheet for full technical data.

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THERMOBREAK®

SEKISUI
FOAM INTERNATIONAL

THERMOBREAK®

High-performance
Thermal & Acoustic Insulation

Thermobreak® **LS** TUBE



0.032 W/m.°K

The lowest thermal conductivity of any flexible foam insulation.

μ > 80,000

Exceptional vapour resistance.

25kg/m³

Lightweight, flexible and fast to install.

10 Years

Manufacturer Warranty.

Pipe Insulation. Elevated.

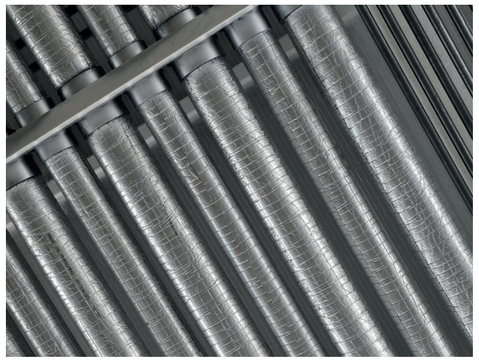
Thermobreak LS Tube delivers all the benefits of our LS product and puts it in an easy-to-use, pre-formed pipe section. With industry-leading thermal conductivity and flexibility, it's the best choice for demanding pipe applications.

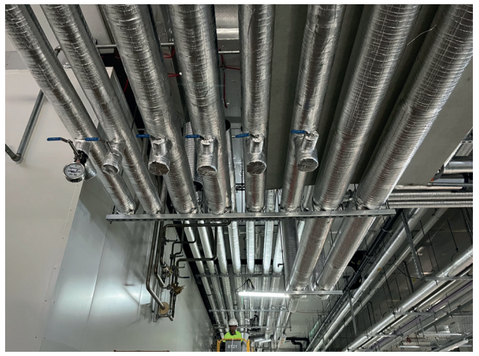
Thermobreak LS Tube is supplied with a factory applied, reinforced aluminium foil facing. We use the highest quality materials in our manufacturing process, ensuring longevity and continuous energy savings.

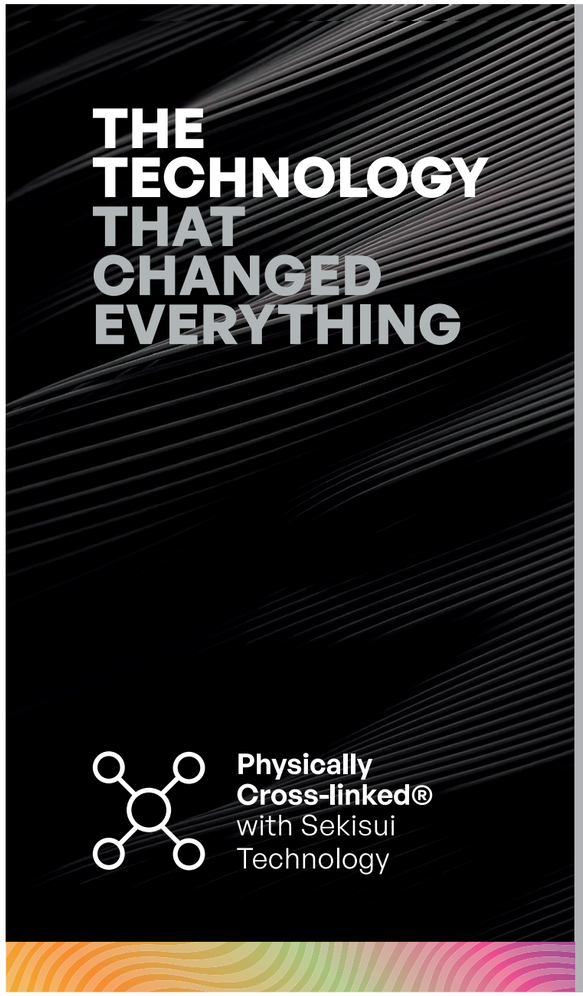
Our **reinforced aluminium foil barrier** provides a built in physical protection layer for the insulation, whilst also reducing heat flow, providing additional energy savings over non-foil faced alternatives.

Thermobreak's proprietary **pipe forming technology** allows us to provide the largest range of wall thicknesses and pipe diameter sizes. Our physically cross-linked technolgy ensures that our tubes are very accurate in diamater and roundness, allowing a fast and simple installation.

With its **closed cell structure**, Thermobreak LS Tube has near zero water absorption, ensuring performance does not degrade over time.







Physically Cross-linked. Performance Perfected.

We didn't just improve existing insulation - we revolutionised it. Our pioneering physically cross-linked polyolefin technology, developed by Sekisui Chemical, created a superior cell structure that delivers an industry leading thermal conductivity, exceptional vapour resistance, and unmatched durability.

Our proprietary physical cross-linking process produces smaller, more evenly distributed cells, that maintain performance for decades. The result? Insulation that others are still trying to match. While competitors catch up to yesterday's innovation, we continue pushing the boundaries and setting new benchmarks in performance.

But technology means nothing without real-world solutions. From preventing condensation on ducts and pipes, to meeting the strictest rail safety standards, our innovations solve actual challenges. Every product is engineered for conditions specific to your environment, and backed by our comprehensive technical support.

Size availability

Thermobreak® **LS** TUBE

Wall Thickness		Minimum ID		Maximum ID	
Metric	Imperial	Metric	Imperial	Metric	Imperial
15mm	5/8"	7mm	1/4"	610mm	24"
20mm	3/4"	7mm	1/4"	610mm	24"
25mm	1"	7mm	1/4"	610mm	24"
30mm	1 1/4"	10mm	3/8"	610mm	24"
40mm	1 5/8"	12.7mm	1/2"	610mm	24"
50mm	2"	12.7mm	1/2"	610mm	24"
60mm	2 3/8"	12.7mm	1/2"	610mm	24"
65mm	3 3/8"	12.7mm	1/2"	610mm	24"

*Other sizes may be available on request. Please speak to your local Thermobreak contact for exact information on size availability.