THERMOBREAK tube

PIPE INSULATION



A preformed closed cell physically crosslinked polyolefin foam tube insulation with reinforced foil facing for steel and copper pipes.





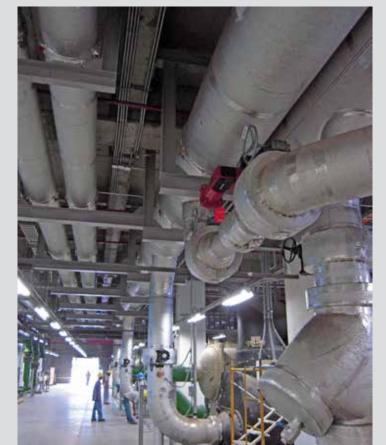


THERMOBREAK tube





Premium performance pipe insulation offering lower installation costs and *maximum energy savings*





THERMOBREAK 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.

Size Availability

Wall thickness (mm)	Min ID (mm)	Max ID (mm)	IPS Max (in)
15mm	7.0	273.0	10"
20mm	7.0	273.0	10"
25mm	7.0	273.0	10"
30mm / 35mm	9.5	254.0	8"
40mm / 50mm / 55mm	12.7	219.2	8"

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Physical Properties ////

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

Physical Property Requirements (ASTM C1427)	Complies (Type I –Tubular)
Density:	25kg/m³ (foam core only)
Thermal Conductivity: (ASTM C518)	0.032 W/m/°K (@ 23°C mean temperature)
Water Vapour Permeability: (ASTM E96)	2.3 X 10 ⁻¹⁵ kg/Pa.s.m
Water Vapour Permeance: 12mm thickness	0.000195 μg/N.s
Permeability Resistance Factor:	μ>80,000
Water absorption by volume: (ASTM C1763, Procedure B, 24h)	< 0.2% v/v
Resistance to Fungi: (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: Heat Evolved Index: Ignitability Index: Smoke Developed Index:	0 0 0 0-1	
ASTM E 84	Complies to: Flame Spread Index <25 Smoke Index <50	
NFPA 90A & NFPA 90B	Complies with requirements	
ISO 5659-2 (1994) Smoke Density Smoke Toxicity	$D_{\rm m} < 200$ Satisfies max allowable concentrations for the following combustion gases CO, HCI, HBr, HF, HCN, NO _x , SO ₂	
BS 6853 Annex B Complies to:	Smoke Toxicity, Index R <1.0	
EN ISO 11925 Reaction to Fire	Complies (Euroclass E)	

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