AEROFOAM®-XLPE

Cross-Linked Closed Cell Polyolefin Thermal Insulation Foam

ASTM E84

CLASS 0

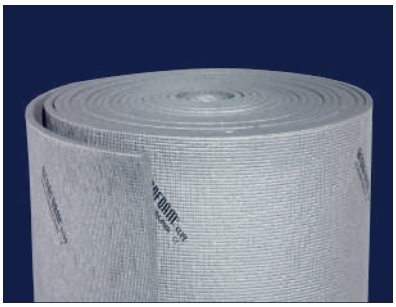
PRODUCT CONFORMITY

SINGAPORE GREEN BUILDING PRODUCT SGBC EXCELLENT SGBP 2021-4437

www.aerofoamvietnam.com

AEROFOAM® XLPE TUBES, ROLLS & SHEETS

Aerofoam® XLPE rolls, sheets and tubular shapes are made of cross-linked closed cell polyolefin thermal insulation foam with factory applied aluminum foil for mechanical protection designed to control condensation and energy losses in cooling and heating systems.



It is suitable for such applications like duct and pipe insulation for air conditioning, cold water, chilled water, hot water and refrigeration as well as within OEM applications.

Designed for indoor and outdoor applications, however outdoor applications need additional protection against weather conditions and UV radiation.

FEATURES

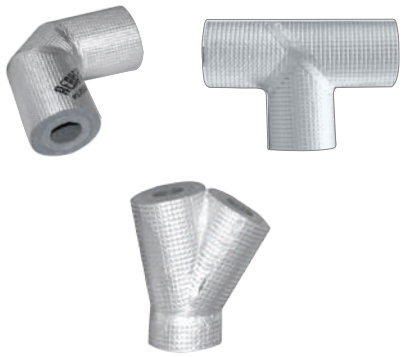
- Closed cell structure
- Resistant to bacteria
- Prevent condensation
- High mechanical strength
- Excellent thermal efficiency
- Flexible foam easy to install
- Suitable for low temperature applications
- Suitable for coastal area applications
- Environmental friendly foam
- Ozone Resistant
- Resistant to mold & mildew growth
- Suitable for cooling & heating systems

APPLICATIONS

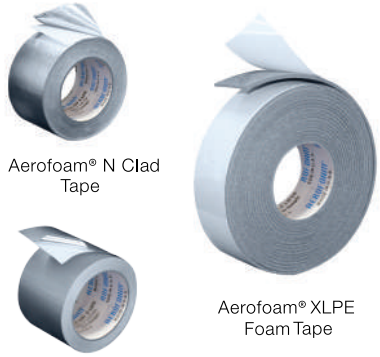
Different colors of foil facer are available upon request (e.g. black, blue, etc). Contact Aerofoam® Technical Support for further details.

AERO-FITTINGS

Pre-fabricated Aero-fittings are made in different shapes such as 90 and 45 degrees Elbows, Tees and Y-Branches.



AEROFOAM® TAPES



Aerofoam® N Clad Tape

Aerofoam® XLPE Foam Tape

Aerofoam® Aluminum/Alupet Tape

AEROFOAM® XLPE GLUE

AEROCALC

AEROCALC software is an excellent tool for calculating the most optimal thicknesses of insulation. Available as **Desktop, iOS** and **Android** applications.

Visit our website: **aerofoamvietnam.com**

Scan QR code to download desktop app

AEROFOAM® XLPE TUBES - SIZE RANGE

Copper pipes for AC & Refrigeration		Steel Pipe		Aerofoam® XLPE Nominal ID		Aerofoam® XLPE Tubes Size Range										
OD [inch]	OD [mm]	Nom size [inch]	OD [mm]	inch	mm	10	12	15	20	25	30	32	35	40	50	60
1/4"	6.35			1/4"	6	10x06	12x06	15x06	20x06	25x06	30x06	32x06	35x06	40x06		
3/8"	9.52			3/8"	9	10x09	12x09	15x09	20x09	25x09	30x09	32x09	35x09	40x09		
1/2"	12.70			1/2"	13	10x13	12x13	15x13	20x13	25x13	30x13	32x13	35x13	40x13	50x13	60x13
5/8"	15.88	1/4"	13.70	5/8"	16	10x16	12x16	15x16	20x16	25x16	30x16	32x16	35x16	40x16	50x16	60x16
3/4"	19.05			3/4"	20	10x20	12x20	15x20	20x20	25x20	30x20	32x20	35x20	40x20	50x20	60x20
7/8"	22.22	1/2"	21.3	7/8"	22	10x22	12x22	15x22	20x22	25x22	30x22	32x22	35x22	40x22	50x22	60x22
1"	25.40			1"	25	10x25	12x25	15x25	20x25	25x25	30x25	32x25	35x25	40x25	50x25	60x25
1-1/8"	28.58	3/4"	26.70	1-1/8"	28	10x28	12x28	15x28	20x28	25x28	30x28	32x28	35x28	40x28	50x28	60x28
				1-1/4"	32	10x32	12x32	15x32	20x32	25x32	30x32	32x32	35x32	40x32	50x32	60x32
1-3/8"	34.93	1"	33.70	1-3/8"	35	10x35	12x35	15x35	20x35	25x35	30x35	32x35	35x35	40x35	50x35	60x35
				1-1/2"	40	10x40	12x40	15x40	20x40	25x40	30x40	32x40	35x40	40x40	50x40	60x40
1-5/8"	41.28	1-1/4"	42.20	1-5/8"	43	10x43	12x43	15x43	20x43	25x43	30x43	32x43	35x43	40x43	50x43	60x43
1-7/8"	48.00	1-1/2"	48.30	1-7/8"	48	10x48	12x48	15x48	20x48	25x48	30x48	32x48	35x48	40x48	50x48	60x48
				2"	50	10x50	12x50	15x50	20x50	25x50	30x50	32x50	35x50	40x50	50x50	60x50
2-1/8"	53.98			2-1/8"	54	10x54	12x54	15x54	20x54	25x54	30x54	32x54	35x54	40x54	50x54	60x54
2-3/8"	60.30	2"	60.30	2-3/8"	60	10x60	12x60	15x60	20x60	25x60	30x60	32x60	35x60	40x60	50x60	60x60
					75	10x75	12x75	15x75	20x75	25x75	30x75	32x75	35x75	40x75	50x75	60x75
3"	76.00	2-1/2"	73.00	3"	77	10x77	12x77	15x77	20x77	25x77	30x77	32x77	35x77	40x77	50x77	60x77
3-1/8"	79.00				80	10x80	12x80	15x80	20x80	25x80	30x80	32x80	35x80	40x80	50x80	60x80
3-1/2"	89.00	3"	88.9	3-1/2"	90	10x90	12x90	15x90	20x90	25x90	30x90	32x90	35x90	40x90	50x90	60x90
4"	102.00			4"	102	10x102	12x102	15x102	20x102	25x102	30x102	32x102	35x102	40x102	50x102	60x102
					110	10x110	12x110	15x110	20x110	25x110	30x110	32x110	35x110	40x110	50x110	60x110
4-1/2"	114.00	4"	114.30		115	10x115	12x115	15x115	20x115	25x115	30x115	32x115	35x115	40x115	50x115	60x115
					125	10x125	12x125	15x125	20x125	25x125	30x125	32x125	35x125	40x125	50x125	60x125
		5"	141.30		140				20x140	25x140	30x140	32x140	35x140	40x140	50x140	60x140
					160				20x160	25x160	30x160	32x160	35x160	40x160	50x160	60x160
		6"	168.30		168				20x168	25x168	30x168	32x168	35x168	40x168	50x168	60x168
		8"	219.10		220				20x220	25x220	30x220	32x220	35x220	40x220	50x220	60x220
		10"	273.00		273				20x273	25x273	30x273	32x273	35x273	40x273	50x273	60x273
		12"	323.80		323				20x323	25x323	30x323	32x323	35x323	40x323	50x323	60x323
		14"	355.60		356				20x356	25x356	30x356	32x356	35x356	40x356	50x356	60x356
		16"	406.40		406				20x406	25x406	30x406	32x406	35x406	40x406	50x406	60x406
		18"	457.00		457				20x457	25x457	30x457	32x457	35x457	40x457	50x457	60x457
					600				20x600	25x600	30x600	32x600	35x600	40x600	50x600	60x600
		24"	610.00		609				20x609	25x609	30x609	32x609	35x609	40x609	50x609	60x609
		28"	711.00		711				20x711	25x711	30x711	32x711	35x711	40x711	50x711	60x711

Note: Length of tubes: 1.5 m for ID ≤160 mm; 1.2 m for ID >160 mm

AEROFOAM® XLPE ROLLS & SHEETS - SIZE RANGE

Thickness		Product Range			
Inch	mm	Size	Surface	Type	XLPE SA-AL
1/8”	3	1.2mx20m	24m²	Roll	3 SA-AL
1/4”	5	1.2mx20m	24m²	Roll	5 SA-AL
3/8”	10	1.2mx20m	24m²	Roll	10 SA-AL
1/2”	12	1.2mx20m	24m²	Roll	12 SA-AL
5/8”	15	1.2mx20m	24m²	Roll	15 SA-AL
3/4”	20	1.2mx20m	24m²	Roll	20 SA-AL
1”	25	1.2mx2.4m	2.88m²	Sheet	25 SA-AL
1-1/6”	30	1.2mx2.4m	2.88m²	Sheet	30 SA-AL
1-3/8”	35	1.2mx2.4m	2.88m²	Sheet	35 SA-AL
1-1/2”	40	1.2mx2.4m	2.88m²	Sheet	40 SA-AL
2”	50	1.2mx2.4m	2.88m²	Sheet	50 SA-AL

ACCESSORIES	Unit
Aerofoam® Tape - XLPE Foam	roll
Aerofoam® Tape - Aluminum/Alupet	roll
Aerofoam® Tape - N Clad	roll
Aerofoam® XLPE Glue	2.5 litre

Tolerances - Rolls & Sheets			
Thickness	Thickness tolerance	Length tolerance	Width tolerance
< 25 mm	± 1.5 mm	±20 mm (Sheets)	±20 mm
≥ 25 mm	-2 mm, +3.5 mm	±50 mm (Rolls)	

Different colors of aluminum foil and foam are available upon special request.

Other sizes are available upon request. Please contact our technical team or local representative for further information about technical features, special sizes and customized products.

TECHNICAL DATA

Description: Aerofoam® XLPE is a light or dark grey, cross-linked closed-cell polyolefin thermal insulation foam with factory applied aluminum foil for mechanical protection, mainly designed to control condensation and energy losses.

Property	Value/ Assessment	Tested acc. to:
Thermal conductivity At 23 °C - 45 °C	0.032-0.035 W/m·K	ASTM C518
Temperature range Max. line temperature Max. line temperature *Aerofoam® Technical Team should be consulted for applications with temperature below -40 °C.*	+105 °C (+80 °C with PSA*) -80 °C (-30 °C with PSA*)	DIN EN 14706 ASTM C411
Density of foam core	25 kg/m³ (±3 kg/m³)	
Water vapor diffusion resistance factor	μ>54700	BS EN 12086
Water vapor permeance	2.15×10^{-10} g/m².s.Pa	ASTM E96
Water absorption	0.05 kg/m² 0.00008 g/cm²	BS EN 12087 JIS K6767
Reaction to fire	FSI<25, SDI<50	ASTM E84
	Class 0	BS 476 part 6&7
	Ignitability Index 0 Spread of Flame Index 0 Heat Evolved Index 0 Smoke Developed Index 1	AS/NZ 1530.3
Smoke and toxicity Smoke toxicity levels Toxic smoke	 Passed Comply	 IMO MSC 61(67); A.1, P.2 & P.5 BS 6853
Resistance to corrosion	Excellent	ASTM B117
Chemical analysis (Leachable ions)	Very low	ASTM C871
Compression set	35.77% (for 25 mm) 34.22% (for 32 mm)	ASTM D3574
Resistance to fungi	Zero growth	ASTM G21
Resistance to bacteria	Zero growth	ISO 22196
VOC evaluation Emission Contents	 <0.5 mg/m³ Comply	CDPH V1.2/US EPA methods TO17 CDPH V1.2/US EPA methods TO17
Environment friendly Ozone Depletion Potential Global Warming Potential CFC, HCFC, dust, fibers & asbestos	 0 <5 Free	

Note: All outdoor applications of Aerofoam® XLPE need to be protected by Aerofoam® approved coating or weather resistant cladding. It is recommended to use Aerofoam® XLPE N Clad for all outdoor applications.

***PSA** - Pressure Sensitive Adhesive

Disclaimer: This information on Hira Industries products is presented to the best of our knowledge. All product data is based on average values and is for guidance only. As these products are subject to constant research and development, we reserve the right to update the contents without notice.

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