AEROFOAM®-XLPE



Cross-Linked Closed Cell Polyolefin Thermal Insulation Foam

ASTM E84 CLASS 0 E539009 PRODUCT CONFORMITY GREENGUARD

www.aerofoamglobal.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
- Prevent condensation
- Excellent thermal efficiency
- Suitable for low temperature applications
- Environmental friendly foam
- Resistant to mold & mildew growth
- Resistant to bacteria
- High mechanical strength
- Flexible foam easy to install
- Suitable for coastal area applications
- Ozone Resistant
- 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® XLPE Foam Tape



Aerofoam® Aluminum/Alupet Tape



Aerofoam® Printed Aluminum/Alupet Tape

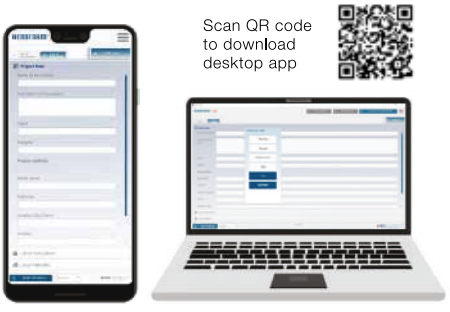
AEROFOAM® XLPE GLUE



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: **www.aerofoamglobal.com**



AEROFOAM® XLPE TUBES - SIZE RANGE

ID		Thickness										
Inch	mm	10 mm (3/8")	12 mm (1/2")	15 mm (5/8")	20 mm (3/4")	25 mm (1")	30 mm (1-1/6")	32 mm (1-1/4")	35 mm (1-3/8")	40 mm (1-1/2")	50 mm (2")	60 mm (2-3/8")
1/4"	06	10x06	12x06	15x06	20x06	25x06	30x06	32x06	35x06	40x06		
3/8"	09	10x09	12x09	15x09	20x09	25x09	30x09	32x09	35x09	40x09		
1/2"	12	10x12	12x12	15x12	20x12	25x12	30x12	32x12	35x12	40x12	50x12	60x12
	13	10x13	12x13	15x13	20x13	25x13	30x13	32x13	35x13	40x13	50x13	60x13
5/8"	16	10x16	12x16	15x16	20x16	25x16	30x16	32x16	35x16	40x16	50x16	60x16
	19	10x19	12x19	15x19	20x19	25x19	30x19	32x19	35x19	40x19	50x19	60x19
3/4"	20	10x20	12x20	15x20	20x20	25x20	30x20	32x20	35x20	40x20	50x20	60x20
	21	10x21	12x21	15x21	20x21	25x21	30x21	32x21	35x21	40x21	50x21	60x21
7/8"	22	10x22	12x22	15x22	20x22	25x22	30x22	32x22	35x22	40x22	50x22	60x22
1"	25	10x25	12x25	15x25	20x25	25x25	30x25	32x25	35x25	40x25	50x25	60x25
	27	10x27	12x27	15x27	20x27	25x27	30x27	32x27	35x27	40x27	50x27	60x27
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
1-1/3"	33	10x33	12x33	15x33	20x33	25x33	30x33	32x33	35x33	40x33	50x33	60x33
1-3/8"	35	10x35	12x35	15x35	20x35	25x35	30x35	32x35	35x35	40x35	50x35	60x35
	38	10x38	12x38	15x38	20x38	25x38	30x38	32x38	35x38	40x38	50x38	60x38
1-1/2"	40	10x40	12x40	15x40	20x40	25x40	30x40	32x40	35x40	40x40	50x40	60x40
	42	10x42	12x42	15x42	20x42	25x42	30x42	32x42	35x42	40x42	50x42	60x42
1-2/3"	43	10x43	12x43	15x43	20x43	25x43	30x43	32x43	35x43	40x43	50x43	60x43
	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"	54	10x54	12x54	15x54	20x54	25x54	30x54	32x54	35x54	40x54	50x54	60x54
2-1/3"	60	10x60	12x60	15x60	20x60	25x60	30x60	32x60	35x60	40x60	50x60	60x60
2-1/2"	63	10x63	12x63	15x63	20x63	25x63	30x63	32x63	35x63	40x63	50x63	60x63
	65	10x65	12x65	15x65	20x65	25x65	30x65	32x65	35x65	40x65	50x65	60x65
3"	75	10x75	12x75	15x75	20x75	25x75	30x75	32x75	35x75	40x75	50x75	60x75
	76	10x76	12x76	15x76	20x76	25x76	30x76	32x76	35x76	40x76	50x76	60x76
	77	10x77	12x77	15x77	20x77	25x77	30x77	32x77	35x77	40x77	50x77	60x77
	80	10x80	12x80	15x80	20x80	25x80	30x80	32x80	35x80	40x80	50x80	60x80
3-1/2"	90	10x90	12x90	15x90	20x90	25x90	30x90	32x90	35x90	40x90	50x90	60x90
4"	102	10x102	12x102	15x102	20x102	25x102	30x102	32x102	35x102	40x102	50x102	60x102
4-1/3"	110	10x110	12x110	15x110	20x110	25x110	30x110	32x110	35x110	40x110	50x110	60x110
4-1/2"	115	10x115	12x115	15x115	20x115	25x115	30x115	32x115	35x115	40x115	50x115	60x115
5"	125	10x125	12x125	15x125	20x125	25x125	30x125	32x125	35x125	40x125	50x125	60x125
	140				20x140	25x140	30x140	32x140	35x140	40x140	50x140	60x140
	160				20x160	25x160	30x160	32x160	35x160	40x160	50x160	60x160
6-1/2"	166				20x166	25x166	30x166	32x166	35x166	40x166	50x166	60x166
	168				20x168	25x168	30x168	32x168	35x168	40x168	50x168	60x168
8"	200				20x200	25x200	30x200	32x200	35x200	40x200	50x200	60x200
8-3/4"	220				20x220	25x220	30x220	32x220	35x220	40x220	50x220	60x220
11"	273				20x273	25x273	30x273	32x273	35x273	40x273	50x273	60x273
12"	300				20x300	25x300	30x300	32x300	35x300	40x300	50x300	60x300
13"	323				20x323	25x323	30x323	32x323	35x323	40x323	50x323	60x323
14"	356				20x356	25x356	30x356	32x356	35x356	40x356	50x356	60x356
16"	406				20x406	25x406	30x406	32x406	35x406	40x406	50x406	60x406
18"	457				20x457	25x457	30x457	32x457	35x457	40x457	50x457	60x457
23-5/8"	600				20x600	25x600	30x600	32x600	35x600	40x600	50x600	60x600
24"	609				20x609	25x609	30x609	32x609	35x609	40x609	50x609	60x609
28"	711				20x711	25x711	30x711	32x711	35x711	40x711	50x711	60x711

Note: Length of tubes: 1.5 m or 1.8 m for ID up to 160 mm, 1.2 m for ID above 160 mm

AEROFOAM® XLPE ROLLS & SHEETS

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 - Tubes (foam core only)	
Inner Diameter (ID)	≤6-50 mm: -1 mm, 1.5 mm
	54-160 mm: -1.5 mm, +2.5 mm
	≥160 mm: -2 mm, +3.5 mm
Thickness	≤10-25 mm: ± 1.5 mm
	30-50 mm: -2 mm, +3.5 mm
Length	± 20 mm

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	0.035 W/m·K	ASTM C518
Temperature range Max. line temperature Min. 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	$2.15x10^{-10}$ 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
	HF-1	UL 94
	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
TVOC Emission	<0.5 mg/m³ UL Greenguard Gold Certified	CDPH V1.2/US EPA methods TO17 CDPH v1.2/UL 2818
Environment friendly Ozone Depletion Potential Global Warming Potential CFC, HCFC, dust, fibers & asbestos	 0 <5 Free	

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.*

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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