

AEROFOAM[®] -XLPE



Cross-Linked Closed Cell Polyolefin Thermal Insulation Foam



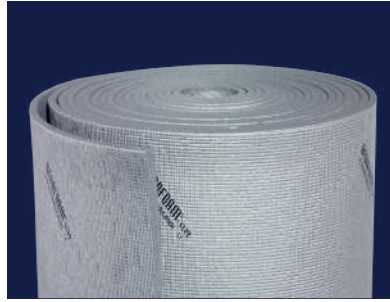
ASTM E84

CLASS 0

 www.aerofoam.co.in

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

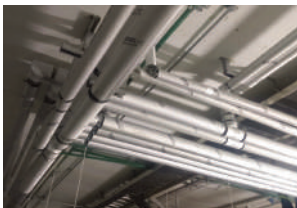


Resistant to mold & mildew growth



Suitable for cooling & heating systems

APPLICATIONS

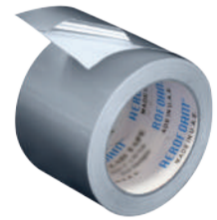


Different colors of foil facer are available upon request (e.g. black, blue, etc). Contact Aerofoam® Technical Support for further details.

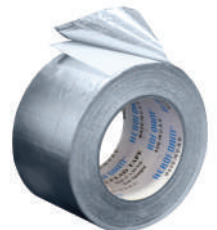
AEROFOAM® TAPES



Aerofoam® XLPE
Foam Tape



Aerofoam®
Aluminum/Alupet
Tape



Aerofoam® N Clad
Tape

AEROCALC

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

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AEROFOAM® XLPE TUBES - SIZE RANGE

Insulation Tube Sizes		Thickness							
Inch	mm	9 mm	13 mm	15 mm	19 mm	25 mm	32 mm	40 mm	50 mm
	16	16x9	16x13	16x15	16x19	16x25	16x32	16x40	
3/4"	19	19x9	19x13	19x15	19x19	19x25	19x32	19x40	
	20	20x9	20x13	20x15	20x19	20x25	20x32	20x40	
1/2"	22	22x9	22x13	22x15	22x19	22x25	22x32	22x40	
	25	25x9	25x13	25x15	25x19	25x25	25x32	25x40	
3/4"	28	28x9	28x13	28x15	28x19	28x25	28x32	28x40	
	32	32x9	32x13	32x15	32x19	32x25	32x32	32x40	32x50
1"	35	35x9	35x13	35x15	35x19	35x25	35x32	35x40	35x50
	40	40x9	40x13	40x15	40x19	40x25	40x32	40x40	40x50
1-1/4"	43	43x9	43x13	43x15	43x19	43x25	43x32	43x40	43x50
1-1/2"	50	50x9	50x13	50x15	50x19	50x25	50x32	50x40	50x50
2"	60	60x9	60x13	60x15	60x19	60x25	60x32	60x40	60x50
	75	75x9	75x13	75x15	75x19	75x25	75x32	75x40	75x50
2-1/2"	77	77x9	77x13	77x15	77x19	77x25	77x32	77x40	77x50
3"	90	90x9	90x13	90x15	90x19	90x25	90x32	90x40	90x50
	110	110x9	110x13	110x15	110x19	110x25	110x32	110x40	110x50
4"	115	115x9	115x13	115x15	115x19	115x25	115x32	115x40	115x50
	125	125x9	125x13	125x15	125x19	125x25	125x32	125x40	125x50
5"	140				140x19	140x25	140x32	140x40	140x50
	160				160x19	160x25	160x32	160x40	160x50
6"	166				166x19	166x25	166x32	166x40	166x50
8"	220				220x19	220x25	220x32	220x40	220x50
10"	273				273x19	273x25	273x32	273x40	273x50
12"	323				323x19	323x25	323x32	323x40	323x50
14"	356				356x19	356x25	356x32	356x40	356x50
16"	406				406x19	406x25	406x32	406x40	406x50
18"	457				457x19	457x25	457x32	457x40	457x50

Pipe section length: ID<6": 1.5 m, ID>6":1.2 m;
Thickness tolerance: ≤10-25 mm = ±1.5 mm, <25-50 mm = -2 mm, +3.5 mm
Length: ±1.5 cm ID: 6-50 mm = ±1.5 mm, 50 mm up = ±2.5 mm
Note: If the outer diameter of metal or plastic pipe is not in the list, please send us a sample of the pipe for customized product.

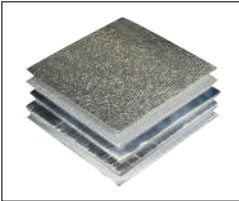
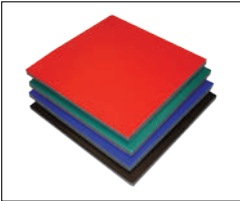
Tubes without foil and other diameters up to 40" are also available upon special request.

AEROFOAM® XLPE ROLLS & SHEETS - SIZE RANGE

Thickness		Product Range							
Inch	mm	Size	Surface	Type	XLPE	XLPE SA	XLPE AL	XLPE SA-AL	XLPE SA-RAL
	3	1.2mx120m	144 m²	Roll	3	3 SA	3 AL	3 SA-AL	
1/8"	6	1.2mx85m	102 m²	Roll	6	6 SA	6 AL	6 SA-AL	
	9	1.2mx45m	54 m²	Roll	9	9 SA	9 AL	9 SA-AL	
	13	1.2mx40m	48 m²	Roll	13	13 SA	13 AL	13 SA-AL	13 SA-AL
5/8"	15	1.2mx30m	36 m²	Roll	15	15 SA	15 AL	15 SA-AL	15 SA-AL
	16	1.2mx30m	36 m²	Roll	16	16 SA	16 AL	16 SA-AL	16 SA-AL
	19	1.2mx20m	24 m²	Roll	19	19 SA	19 AL	19 SA-AL	19 SA-AL
1"	25	1.2mx20m	24 m²	Roll	25	25 SA	25 AL	25 SA-AL	25 SA-AL
1-1/4"	32	1.2mx10m	12 m²	Roll	32	32 SA	32 AL	32 SA-AL	
1-1/2"	40	1.2mx2.4m	2.88 m²	Sheet	40	40 SA	40 AL	40 SA-AL	
2"	50	1.2mx2.4m	2.88 m²	Sheet	50	50 SA	50 AL	50 SA-AL	

Tolerance Length: ±0.2 m, Width: ±0.02 m		Accessories		Unit	XLPE SA-AL	Plain Foam
Thickness	≤3-9 mm = ±1 mm	Aerofoam® Tape - XLPE Foam		roll	XLPE SA	Plain Foam, Self-adhesive
	<9-32 mm = ±1.5 mm	Aerofoam® Tape - Alupet		roll	XLPE AL	Foam with Aluminium Foil
	<32-50 mm = -2 mm +3.5 mm	Aerofoam® Tape - N CLad		roll	XLPE SA-AL	Foam with Aluminium Foil, Self-adhesive

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.



Aerofoam® XLPE thermal insulation is also available in alupet, N CLad, scrim and reinforced aluminum foil.
Glass cloth foil is also available in a variety of colors.

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 at 0 °C	0.034 W/m·K 0.031 W/m·K	ASTM C518
Temperature range Max. line temperature Max. line temperature <i>Aerofoam® Technical Team should be consulted for applications with temperature below -40 °C.</i>	+105 °C (+80 °C with PSA*) -80 °C (-30 °C with PSA*)	ASTM C411 ASTM C1427
Density of foam core	25 kg/m³ (±3 kg/m³)	ASTM D3575 / IS 7888
Water vapor diffusion resistance factor	μ>60000	BS EN 12086
Water vapor permeance	0 perms	ASTM E96
Water absorption	0.1 kg/m² (28 days)	BS EN 12087
Reaction to fire	FSI<25, SDI<50	ASTM E84
	Class 0	BS 476 part 6&7
Smoke and toxicity Smoke toxicity levels Toxic smoke	Passed Comply	IMO MSC 307 (88) BS 6853
Resistance to corrosion	Excellent	ASTM B117
Chemical analysis (Leachable ions)	Very low	ASTM C871
Compression set	18.21% (for 25 mm)	ASTM D3575
Resistance to fungi	Zero growth	ASTM G21
Resistance to bacteria	Excellent	ISO 22196
VOC evaluation Emission	<0.5 mg/m²/hr	ASTM D5116
Environment friendly Ozone Depletion Potential Global Warming Potential CFC, HCFC, dust, fibers & asbestos	0 <5 Free	
Storage life <i>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.</i> 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 Technologies 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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