

AEROFOAM[®] -XLPE



Cross-Linked Closed Cell Polyolefin Thermal Insulation Foam



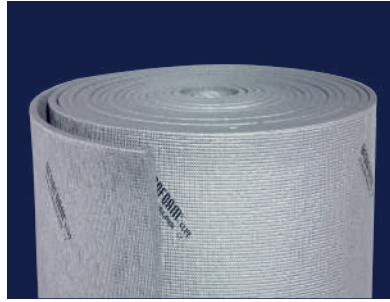
ASTM E84

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

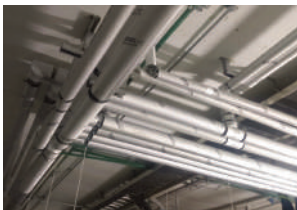


Resistant to mold & mildew growth



Suitable for cooling & heating systems

APPLICATIONS

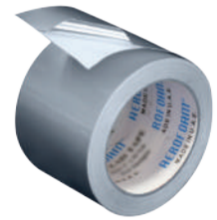


Different colors of foil facer are available upon request (e.g. black, blue, etc). Contact Aerofoam® Technical Support for further details.

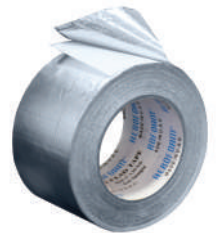
AEROFOAM® TAPES



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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Scan QR code to download desktop app



AEROFOAM® XLPE TUBES - SIZE RANGE

Pipe Size		Thickness							
Inch	mm	10 mm	12 mm	15 mm	20 mm	25 mm	30 mm	40 mm	50 mm
	6	6x10	6x12	6x15	6x20				
	9	9x10	9x12	9x15	9x20				
	12	12x10	12x12	12x15	12x20				
	16	16x10	16x12	16x15	16x20	16x25	16x30		
	19	19x10	19x12	19x15	19x20	19x25	19x30	19x40	
	20	20x10	20x12	20x15	20x20	20x25	20x30	20x40	
1/2"	22	22x10	22x12	22x15	22x20	22x25	22x30	22x40	
	25	25x10	25x12	25x15	25x20	25x25	25x30	25x40	
3/4"	28	28x10	28x12	28x15	28x20	28x25	28x30	28x40	
	32	32x10	32x12	32x15	32x20	32x25	32x30	32x40	32x50
1"	35	35x10	35x12	35x15	35x20	35x25	35x30	35x40	35x50
	40	40x10	40x12	40x15	40x20	40x25	40x30	40x40	40x50
1-1/4"	43	43x10	43x12	43x15	43x20	43x25	43x30	43x40	43x50
1-1/2"	50	50x10	50x12	50x15	50x20	50x25	50x30	50x40	50x50
2"	60	60x10	60x12	60x15	60x20	60x25	60x30	60x40	60x50
	75	75x10	75x12	75x15	75x20	75x25	75x30	75x40	75x50
2-1/2"	77	77x10	77x12	77x15	77x20	77x25	77x30	77x40	77x50
3"	90	90x10	90x12	90x15	90x20	90x25	90x30	90x40	90x50
	110	110x10	110x12	110x15	110x20	110x25	110x30	110x40	110x50
4"	115	115x10	115x12	115x15	115x20	115x25	115x30	115x40	115x50
	125	125x10	125x12	125x15	125x20	125x25	125x30	125x40	125x50
5"	140				140x20	140x25	140x30	140x40	140x50
	160				160x20	160x25	160x30	160x40	160x50
6"	166				166x20	166x25	166x30	166x40	166x50
8"	220				220x20	220x25	220x30	220x40	220x50
10"	273				273x20	273x25	273x30	273x40	273x50
12"	323				323x20	323x25	323x30	323x40	323x50
14"	356				356x20	356x25	356x30	356x40	356x50
16"	406				406x20	406x25	406x30	406x40	406x50
18"	457				457x20	457x25	457x30	457x40	457x50

Pipe section length: <6":1.5 meters; ≥6":1.2 meters; 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 (±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.

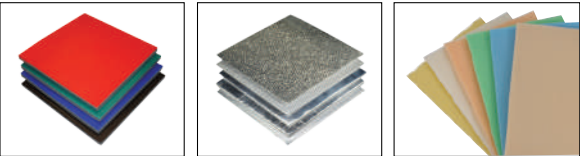
Other diameters up to 40" are also available upon special request.

AEROFOAM® XLPE ROLLS & SHEETS - SIZE RANGE

Thickness		Product Range							
Inch	mm	Size	Surface	Type	CODE	XLPE	XLPE SA	XLPE AL	XLPE SA-AL
	3	1.2mx20m	24m²	Roll	AFMR	3	3 SA	3 AL	3 SA-AL
1/4"	6	1.2mx20m	24m²	Roll	AFMR	6	6 SA	6 AL	6 SA-AL
3/8"	10	1.2mx20m	24m²	Roll	AFMR	10	10 SA	10 AL	10 SA-AL
1/2"	12	1.2mx20m	24m²	Roll	AFMR	12	12 SA	12 AL	12 SA-AL
	15	1.2mx20m	24m²	Roll	AFMR	15	15 SA	15 AL	15 SA-AL
3/4"	20	1.2mx20m	24m²	Roll	AFMR	20	20 SA	20 AL	20 SA-AL
1"	25	1.2mx2.4m	2.88m²	Sheet	AFMS	25	25 SA	25 AL	25 SA-AL
1-1/4"	30	1.2mx2.4m	2.88m²	Sheet	AFMS	30	30 SA	30 AL	30 SA-AL
	35	1.2mx2.4m	2.88m²	Sheet	AFMS	35	35 SA	35 AL	35 SA-AL
1-1/2"	40	1.2mx2.4m	2.88m²	Sheet	AFMS	40	40 SA	40 AL	40 SA-AL
2"	50	1.2mx2.4m	2.88m²	Sheet	AFMS	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	3-10 mm= ±1 mm	Aerofoam® Tape - XLPE Foam		roll	XLPE SA	Plain Foam, Self-adhesive
	10-30 mm= ±1.5 mm	Aerofoam® Tape - Alupet		roll	XLPE AL	Foam with Aluminium Foil
	30-50 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 Min. 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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