

AEROFOAM[®] XLPE

CROSS LINKED CLOSED-CELL POLYOLEFIN FOAM



ASTM E84

CLASS 0



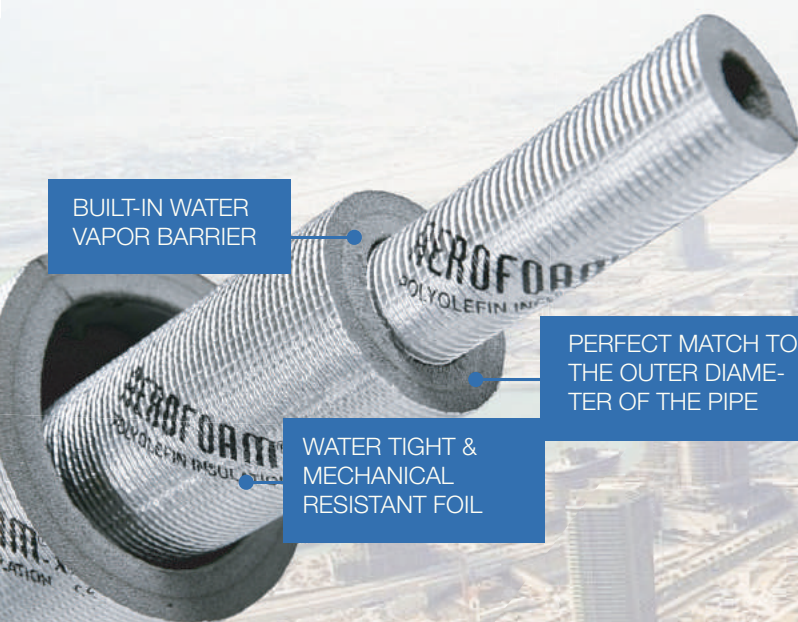
FEATURES OF AEROFOAM® XLPE THERMAL INSULATION



EASY TO APPLY ON
DUCTS AS SHEET
OR ROLL

VERY GOOD THERMAL
SOUND ABSORPTION
PROPERTIES

EASY TO APPLY SELF
ADHESIVE ROLLS
AND SHEETS



BUILT-IN WATER
VAPOR BARRIER

PERFECT MATCH TO
THE OUTER DIAMETER
OF THE PIPE

WATER TIGHT &
MECHANICAL
RESISTANT FOIL

FIRE CLASS AND SMOKE EMISSION

AEROFOAM® XLPE is CLASS O rated (BS 476 Parts 6 & 7) and achieved FSI/SDI of <25/ <50 (ASTM E84). AEROFOAM® XLPE passed the concentration limits of combustion gases (IMO MSC 61/67 1996, Annex 1, Part 2) and achieved R = 0.77 (BS 6853).

ZERO WATER VAPOUR PERMEABILITY AND LOW WATER ABSORPTION RATE

AEROFOAM® XLPE can be installed on ducts or pipes without any other additional water vapor barriers. The excellent protection against condensation ensures a long-term thermal efficiency of the installation.

EXCELLENT THERMAL EFFICIENCY

AEROFOAM® XLPE has a low thermal conductivity of 0.034 W/mK (ASTM C518), which guarantees a high thermal performance improvement of the installation. Excellent dimensional properties and full closed cell structure stand for durable values of thermal efficiency. XLPE Insulation can present one of the longest technical life of the products.

ENVIRONMENT FRIENDLY FOAM

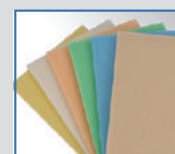
AEROFOAM® XLPE is a CFC and HCFC free product and doesn't contain substances that contribute to the Ozone Depletion Potential (ODP) or to the Global Warming Potential (GWP). AEROFOAM® XLPE doesn't emit any loose fibers and has a very low emission level (VOC).

COST SAVING

AEROFOAM® XLPE requires a limited number of accessories (tape and glue); this facilitates a short installation time and low installation costs.

AEROFOAM® XLPE is specially recommended for medical, pharmaceutical and food processing facilities as well as schools and hospitals.

XLPE foam is available also in other colors on request. Also alupet foil of different colors (blue, black, golden) permanently bonded on the foam can be offered on request.





AEROFOAM® XLPE TUBE

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

Pipe section length: <6":1.5 meters; >6":1.2 meters; Tolerance: 10-25mm= ±1.5mm, 25-50mm= -2mm +3.5mm; Length: ±1.5cm
ID : 6-50mm= ±1.5mm, 50mm up= ±2.5mm

AEROFOAM® XLPE ROLLS & SHEETS

Size				Insulation thickness					
Inch	mm	Size	Surface	Type	XLPE	XLPE SA	XLPE AL	XLPE SA-AL	XLPE SA-RAL
	3	1.2mX120m	144 m ²	Roll	3	3 SA	3 AL	3 SA-AL	
1/8"	6	1.2mX85m	102 m ²	Roll	6	6 SA	6 AL	6 SA-AL	
	9	1.2mX45m	54 m ²	Roll	9	9 SA	9 AL	9 SA-AL	
	13	1.2mX40m	48 m ²	Roll	13	13 SA	13 AL	13SA-AL	13SA-RAL
5/8"	15	1.2mX30m	36 m ²	Roll	15	15 SA	15 AL	15SA-AL	15SA-RAL
	16	1.2mX30m	36 m ²	Roll	16	16 SA	16 AL	16SA-AL	16SA-RAL
	19	1.2mX20m	24 m ²	Roll	19	19 SA	19 AL	19SA-AL	19SA-RAL
1"	25	1.2mX20m	24 m ²	Roll	25	25 SA	25 AL	25SA-AL	25 SA-RAL
1 1/4"	32	1.2mX10m	12 m ²	Roll	32	32 SA	32 AL	32SA-AL	
1 1/2"	40	1.2mX2.4m	2.88 m ²	Sheet	40	40 SA	40 AL	40SA-AL	
2"	50	1.2mX2.4m	2.88 m ²	Sheet	50	50 SA	50 AL	50SA-AL	

Length: ±2cm

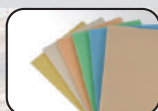
Thickness	3-10mm= ±1mm
	10-30mm= ±1.5mm
	30-50mm= -2mm +3.5mm

ACCESSORIES

Name	Unit
AEROFOAM® XLPE glue 2.5	litre
AEROFOAM® foam tape 2"	roll
AEROFOAM® alupet tape	roll



SA- self adhesive; AL - alupet foil; RAL - reinforced foil



XLPE foam is available also in other colors on request. Also alupet foil of different colors (blue, black, golden) permanently bonded on the foam can be offered on request.

TECHNICAL DATA

Description: Flexible closed cell insulation material with high water vapor diffusion resistance and low thermal conductivity.

Material: Cross linked polyolefin foam with density of $25 \pm 3 \text{ kg/m}^3$ (foam core only) and grey color.

Self-adhesive coating: Pressure sensitive adhesive coating.

Applications: Thermal insulation / protection for pipes, air ducts, vessels (incl. elbows, fittings, flanges, etc.) and process equipment to prevent condensation, save energy and block sound propagation.

Property	Value/ Assessment	Tested acc. to:
Temperature range Max. line temperature Min. line temperature <i>Our Customer Service Center should be consulted for applications with temperatures below -80° C</i>	+105° C -80° C	DIN EN 14706 : 2005 (E) ASTM C411
Thermal conductivity $\lambda[\text{W}/(\text{m}\cdot\text{K})]$ at 0 °C]	0.031	ASTM C518 : 2010
Thermal conductivity $\lambda[\text{W}/(\text{m}\cdot\text{K})]$ at 23[°C]	0.034	ASTM C518 : 2010
Water vapour diffusion resistance factor (μ)	54,700	BS EN 12086 : 1997
Water vapour permeance [perms]	0	ASTM E96
Water absorption [Kg/m²]	0.05	BS EN 12087:1997
Reaction to fire	Class O FSI < 25 & SDI < 50 class A	BS 476 Parts 6&7 ASTM E84
Smoke and toxicity 1. Smoke toxicity levels 2. Toxic smoke	Passed R=0.77	IMO MSC 61 (67); A. 1, P. 2 BS 6853: 1999
Sound absorption	$\alpha = 0.35$ (25mm)	ISO 354
UV resistance *	Excellent	ASTM G155
Resistance to corrosion	Excellent	ASTM B117
Compression set	35.77% (for 25mm) 34.22% (for 32mm)	ASTM D3574
Resistance to fungi	Passed	ASTM G21: 2009
Resistance to bacteria	Passed	ISO 22196 : 2007
Chemical Analysis (Leachable ions)	Very low	ASTM C871
Emission (VOC level)	<4 $\mu\text{g}/\text{m}^2/\text{hr}$	ASTM D5116
Environment friendly Ozone resistance Ozone Depletion Potential Global Warming Potential CFC & HCFC, dust, fibres & asbestos	Excellent 0 <5 Free	
Storage life <i>Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0°C - 45°C).</i>	1 year for self-adhesive sheets/rolls self-adhesive tapes	

*XLPE foam is generally resistant to UV radiation. However, we recommend to use additional cladding in all outdoor application (metal or mastic) from Aerofoam range of products we recommend Aerofoam N Clad with integrated durable foil.

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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