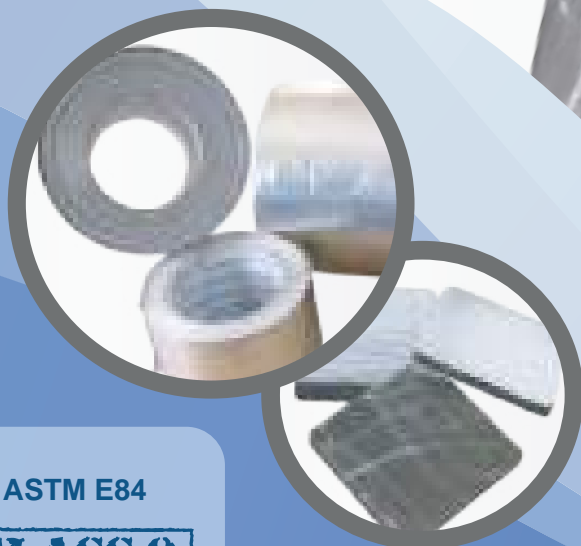


AEROFOAM[®]

N CLAD INSULATION

**CLOSED CELL, CROSSLINKED
POLYOLEFIN FOAM INSULATION DESIGNED
FOR OUTDOOR APPLICATION**



ASTM E84

CLASS 0



FEATURES OF AEROFOAM[®] N CLAD INSULATION



EASY TO APPLY ON
DUCTS AS SHEET
OR ROLLS

EXCELLENT THERMAL
PERFORMANCE

EAST TO APPLY
SELF ADHESIVE ROLLS
& SHEETS

EXCELLENT THERMAL EFFICIENCY

Aerofoam[®] N CLAD has a low thermal conductivity of 0.032 W/mK (ASTM C518), which guarantees a high thermal performance of the insulation. Excellent dimensional strength and closed cell structure ensure long term durability.

ENVIRONMENTALLY FRIENDLY FOAM

Aerofoam[®] N CLAD 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[®] N CLAD doesn't emit any loose fibres and has a very low (VOC) emission level.

COST SAVING

Aerofoam[®] N CLAD requires limited accessories, allowing cost effective and productive installation.

Aerofoam[®] N CLAD has been engineered for use in areas where contamination control is crucial. This includes medical, hospital pharmaceutical and food processing facilities.

UV RESISTANCE

Aerofoam[®] N CLAD has been specially designed for applications where, UV and weather resistance are required. Aerofoam[®] N CLAD is equipped with a specially engineered foil, ensuring the product has excellent UV and weather resistance, along with strong protection from mechanical damage. There is no need for additional cladding, ensuring material and labour savings. Aerofoam[®] N CLAD offers an aesthetic look, whilst maintaining a high thermal performance over the life time of the product, ensuring longevity in performance.



AEROFOAM[®] N CLAD PIPE SECTIONS

Pipe Size		Thickness							
Inch	mm	10mm	12mm	15mm	20mm	25mm	30mm	40mm	50mm
	16	16x10	16x12	16x15	16x20	16x25	16x30	16x40	
	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;

Tolerance: Thickness : ±1.5 mm; Length: ±1.5cm

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

AEROFOAM[®] N CLAD ROLLS & SHEETS

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

Tolerance: Thickness : ±1.5 mm; Length: ±2cm

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

TECHNICAL DATA

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

Material: Cross linked polyolefin foam with density of 25 Kg/m³ (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 (indoor & outdoor).

Property	Value/ Assesment	Tested acc. to:
Temperature range Max. line temperature Min. line temperature <small>Our Customer Service Center could be consulted for applications with temperatures below -80°C</small>	+105°C -80°C (-150°C)	DIN EN 14706 : 2005 (E) ASTM C534 Type 1 & 2
Thermal conductivity (W/mK) at 24 °C at 46 °C	0.032 0.037	ASTM C518 : 2010 ASTM C518 : 2010
Water vapour diffusion resistance factor(μ)	54,000	BS EN 12086 : 1997
Water vapour permeance [perms]	0	ASTM E96
Water absorption [kg/m ²]	0.05	BS EN 12086 : 1997
Reaction to fire	Class O FSI 15 & SDI 25 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	α = 0.35	ISO 354
UV Resistance	Excellent	ASTM G155
Resistance to corrosion	Excellent	ASTM B117
Ozone Resistance	Excellent	
UV Resistance	No changes in thermal performance. No changes in appearance	
Salt Resistance	0.77 No changes in thermal performance. No changes in appearance	
Tensile Strength	>1000 N MD >900 N MD	
Tear Strength	>60 N MD >50 N MD	
Puncture Resistance	<40 N MD	
Resistance to fungi	Passed	ASTM G21 : 2009
Resistance to bacteria	Passed	ISO 22186 : 2007
Chemical Resistance	Very Low	ASTM C871
Emission (VOC level)	< 4 μg/m ² /hr	ASTM D5118
Environment friendly Ozone resistance Ozone Depletion Potential (ODP) Global Warming Potential (GWP) CFC & HCFC, dust, fibres	Excellent 0 < 5 Free	
Storage life Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0° C - 35° C)	1 year for self-adhesive sheets/rolls, self adhesive tapes	

Disclaimer: This information on Hira 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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Hira
TECHNOLOGIES

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