

AEROFOAM[®]

INSULATION SOLUTIONS

CLASS 0

ASTM E84



XLPE N CLAD

***CLOSED CELL, CROSSLINKED
POLYOLEFIN FOAM INSULATION DESIGN FOR
INDOOR AND OUTDOOR APPLICATION***



FEATURES OF AEROFOAM® XLPE N CLAD INSULATION



Surface highly resistant for mechanical damages

UV and weather resistant foil

Very stable cross link polyolefin foam

Perfect match to the outer diameter of the pipe

AEROFOAM® XLPE N Clad product has been designed especially for all application where weather resistance or high durability is required. This product is equipped with special foil which protect insulation material from mechanical damages, UV and weather conditions. There is no need to give additional metal or plastic cladding which leads to significant savings. Product itself gives aesthetical look and remains high thermal performance for long time.

That can be an alternative for all traditional systems containing separately thermal insulation and protective cladding.

EXCELLENT THERMAL EFFIECIENCY

AEROFOAM® XLPE N Clad has a low thermal conductivity of 0.035 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 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® XLPE doesn't emit any loose fibers and has a very low emission level (VOC)

COST SAVING

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

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



AEROFOAM® XLPE N CLAD TUBES

Pipe Size		Thickness							
Inch	mm	10mm	12mm	15mm	20mm	25mm	30mm	40mm	50mm
	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

Pipe section length: >6":1.5 meters; 6":1.2 meters;

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

AEROFOAM® XLPE N CLAD ROLLS & SHEETS

Thickness		Product Range				
Inch	mm	Size	Surface	Type	XLPE N Clad	XLPE N Clad SA
1"	25	1.2mx2.4m	2.88m ²	Sheet	25	25 SA
1 1/4"	30	1.2mx2.4m	2.88m ²	Sheet	30	30 SA
	35	1.2mx2.4m	2.88m ²	Sheet	35	35 SA
1 1/2"	40	1.2mx2.4m	2.88m ²	Sheet	40	40 SA
2"	50	1.2mx2.4m	2.88m ²	Sheet	50	50 SA

Tolerance: Thickness : ± 1.5 mm; Length: ± 20 mm, Width -0/+20 mm

SA- self adhesive;



TECHNICAL DATA

Description: AEROFOAM® XLPE N Clad is chemically cross-linked closed cell polyolefin foam with factory applied reinforced UV resistant aluminum foil.

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/ Assestment	Tested acc. to:
Density (foam core)	25 kg/m ³	
Thermal conductivity (k)	0.035 W/mK @ 24°C	ASTM C518
Water vapour permeability	< 4 x 10 ⁻¹⁵ Pa.s.m	ASTM E96
Water vapour permeance	< 1.5 x 10 ⁻⁴ g/MN.s	BS EN 12087:1997
Permeability resistance factor	μ > 45000	BS EN 12086:1997
Water absorption by volume	< 0.11% v/v	ASTM C209:1998
Resistance to fungi	No growth	ASTM G21 : 2009
UV resistance	No change in properties	ISO 4892-3
Salt resistance	No change in properties	Internal method
Ozone resistance	Excellent	
Tensile strength	>1000N MD ; > 900N CD	ASTM D751
Puncture resistance	> 400 N	ASTM D4833
Operating temperature range	-80 °C to +100 °C	ASTM C411
Fire and Smoke Properties	Class O	BS 476 part 6&7
	Ignitability Index: 0 Spread of Flame Index: 0 Heat Evolved Index: 0 Smoke Developed Index: 0-1	AS 1530 Part 3
Storage life <i>Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and temperature (0° C to 45°C)</i>	1 year for self-adhesive sheets/rolls	

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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