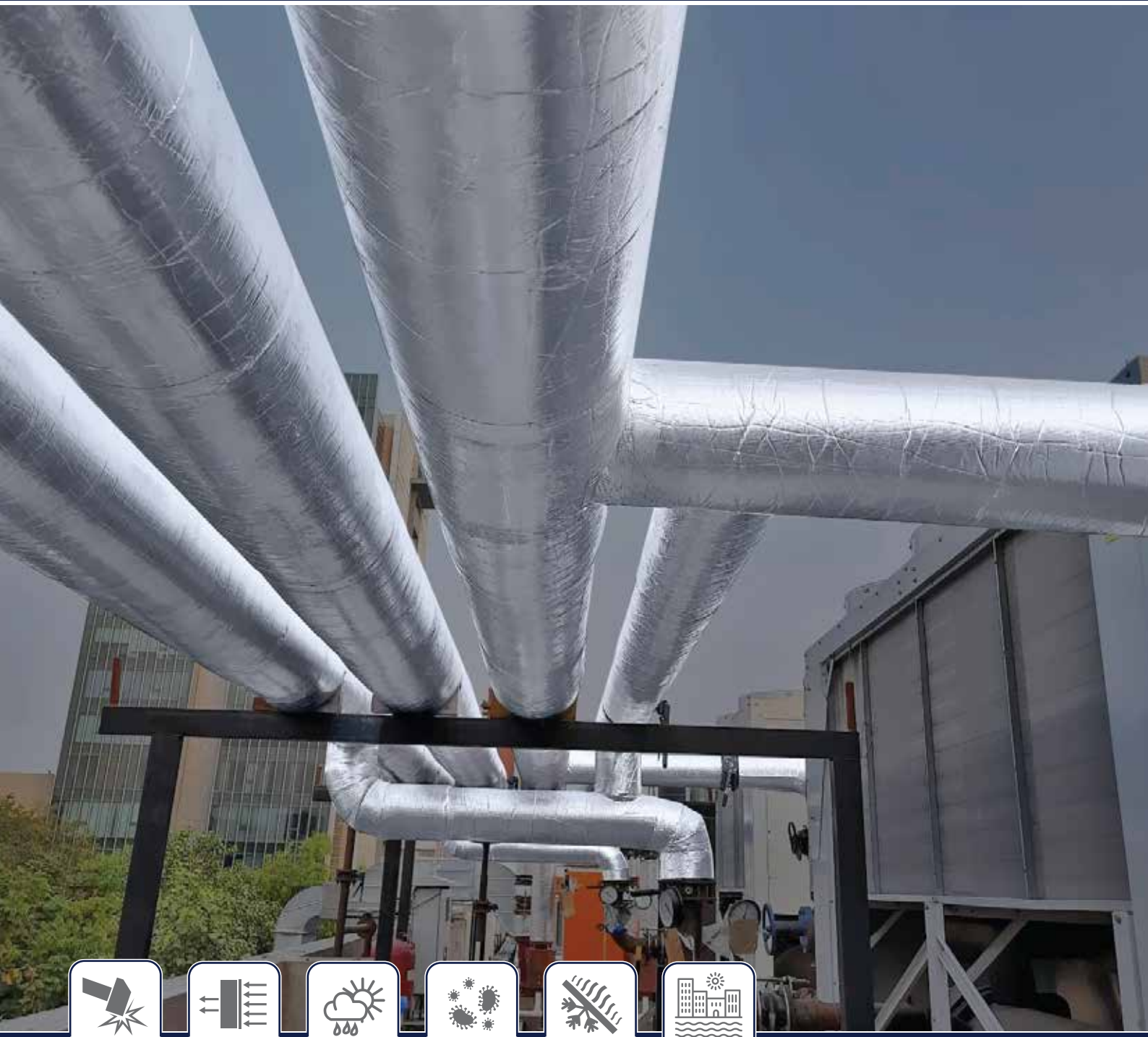


AEROFOAM[®] - XLPE N CLAD



Cross-Linked Closed Cell Polyolefin Thermal Insulation Foam for Indoor & Outdoor Applications

CLASS 0

ASTM E84

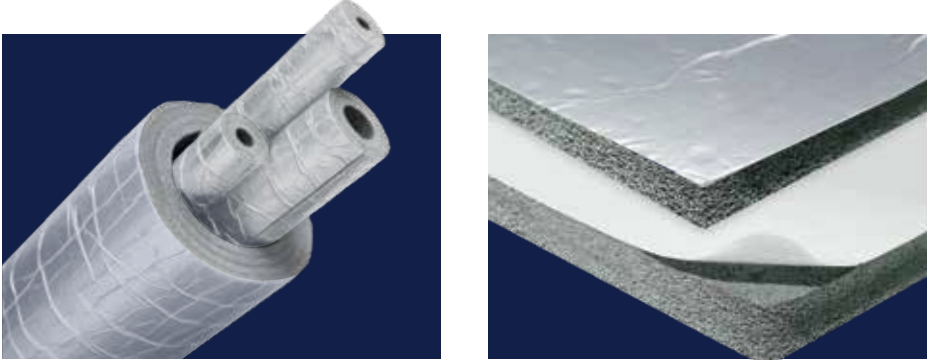
AS 1530.3 TESTED

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AEROFOAM® XLPE N CLAD TUBES & SHEETS

Aerofoam® XLPE N Clad is your 2-in-1 innovative solution offering energy savings combined with reliable weathering protection and it can be used in specific applications such as pharmaceutical, food and beverages, healthcare, data centers, industrial and marine.

Aerofoam® XLPE N Clad is easy to install and offers time savings of more than 50% compared to non-factory applied jacketing systems such as metal sheets or painted canvas cloths.



FEATURES

-  Excellent thermal efficiency
-  High mechanical strength & durability
-  Suitable for cooling & heating systems
-  UV & weather resistant
-  Suitable for application in coastal areas
-  Chemical resistant
-  Resistant to mold & mildew growth
-  Resistant to bacteria growth
-  Environmental friendly foam
-  Ozone resistant
-  No corrosion risk
-  No additional coating needed

APPLICATIONS

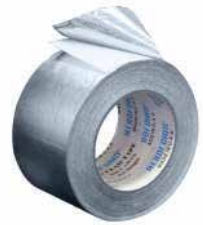


AERO-FITTINGS

Pre-fabricated Aero-fittings are made in different shapes such as 90 and 45 degrees Elbows, Tees and Y-Branches.



AEROFOAM® TAPE



Aerofoam® Tape N Clad

AEROFOAM® XLPE GLUE



AEROCALC

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

Visit our website: aerofoamvietnam.com



Scan the QR code to download the Desktop app.



AEROFOAM® XLPE N CLAD TUBES - SIZE RANGE

| Copper pipes for AC & Refrigeration | | Steel Pipe | | Aerofoam® XLPE N Clad Nominal ID | | Aerofoam® XLPE N Clad Tubes Size Range | | | | | | | | | | |
|-------------------------------------|---------|-----------------|---------|----------------------------------|-----|----------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| OD [inch] | OD [mm] | Nom size [inch] | OD [mm] | inch | mm | 10 | 12 | 15 | 20 | 25 | 30 | 32 | 35 | 40 | 50 | 60 |
| 1/4" | 6.35 | | | 1/4" | 6 | 10x06 | 12x06 | 15x06 | 20x06 | 25x06 | 30x06 | 32x06 | 35x06 | 40x06 | | |
| 3/8" | 9.52 | | | 3/8" | 9 | 10x09 | 12x09 | 15x09 | 20x09 | 25x09 | 30x09 | 32x09 | 35x09 | 40x09 | | |
| 1/2" | 12.70 | | | 1/2" | 13 | 10x13 | 12x13 | 15x13 | 20x13 | 25x13 | 30x13 | 32x13 | 35x13 | 40x13 | 50x13 | 60x13 |
| 5/8" | 15.88 | 1/4" | 13.70 | 5/8" | 16 | 10x16 | 12x16 | 15x16 | 20x16 | 25x16 | 30x16 | 32x16 | 35x16 | 40x16 | 50x16 | 60x16 |
| 3/4" | 19.05 | | | 3/4" | 20 | 10x20 | 12x20 | 15x20 | 20x20 | 25x20 | 30x20 | 32x20 | 35x20 | 40x20 | 50x20 | 60x20 |
| 7/8" | 22.22 | 1/2" | 21.3 | 7/8" | 22 | 10x22 | 12x22 | 15x22 | 20x22 | 25x22 | 30x22 | 32x22 | 35x22 | 40x22 | 50x22 | 60x22 |
| 1" | 25.40 | | | 1" | 25 | 10x25 | 12x25 | 15x25 | 20x25 | 25x25 | 30x25 | 32x25 | 35x25 | 40x25 | 50x25 | 60x25 |
| 1-1/8" | 28.58 | 3/4" | 26.70 | 1-1/8" | 28 | 10x28 | 12x28 | 15x28 | 20x28 | 25x28 | 30x28 | 32x28 | 35x28 | 40x28 | 50x28 | 60x28 |
| | | | | 1-1/4" | 32 | 10x32 | 12x32 | 15x32 | 20x32 | 25x32 | 30x32 | 32x32 | 35x32 | 40x32 | 50x32 | 60x32 |
| 1-3/8" | 34.93 | 1" | 33.70 | 1-3/8" | 35 | 10x35 | 12x35 | 15x35 | 20x35 | 25x35 | 30x35 | 32x35 | 35x35 | 40x35 | 50x35 | 60x35 |
| | | | | 1-1/2" | 40 | 10x40 | 12x40 | 15x40 | 20x40 | 25x40 | 30x40 | 32x40 | 35x40 | 40x40 | 50x40 | 60x40 |
| 1-5/8" | 41.28 | 1-1/4" | 42.20 | 1-5/8" | 43 | 10x43 | 12x43 | 15x43 | 20x43 | 25x43 | 30x43 | 32x43 | 35x43 | 40x43 | 50x43 | 60x43 |
| 1-7/8" | 48.00 | 1-1/2" | 48.30 | 1-7/8" | 48 | 10x48 | 12x48 | 15x48 | 20x48 | 25x48 | 30x48 | 32x48 | 35x48 | 40x48 | 50x48 | 60x48 |
| | | | | 2" | 50 | 10x50 | 12x50 | 15x50 | 20x50 | 25x50 | 30x50 | 32x50 | 35x50 | 40x50 | 50x50 | 60x50 |
| 2-1/8" | 53.98 | | | 2-1/8" | 54 | 10x54 | 12x54 | 15x54 | 20x54 | 25x54 | 30x54 | 32x54 | 35x54 | 40x54 | 50x54 | 60x54 |
| 2-3/8" | 60.30 | 2" | 60.30 | 2-3/8" | 60 | 10x60 | 12x60 | 15x60 | 20x60 | 25x60 | 30x60 | 32x60 | 35x60 | 40x60 | 50x60 | 60x60 |
| | | | | | 75 | 10x75 | 12x75 | 15x75 | 20x75 | 25x75 | 30x75 | 32x75 | 35x75 | 40x75 | 50x75 | 60x75 |
| 3" | 76.00 | 2-1/2" | 73.00 | 3" | 77 | 10x77 | 12x77 | 15x77 | 20x77 | 25x77 | 30x77 | 32x77 | 35x77 | 40x77 | 50x77 | 60x77 |
| 3-1/8" | 79.00 | | | | 80 | 10x80 | 12x80 | 15x80 | 20x80 | 25x80 | 30x80 | 32x80 | 35x80 | 40x80 | 50x80 | 60x80 |
| 3-1/2" | 89.00 | 3" | 88.9 | 3-1/2" | 90 | 10x90 | 12x90 | 15x90 | 20x90 | 25x90 | 30x90 | 32x90 | 35x90 | 40x90 | 50x90 | 60x90 |
| 4" | 102.00 | | | 4" | 102 | 10x102 | 12x102 | 15x102 | 20x102 | 25x102 | 30x102 | 32x102 | 35x102 | 40x102 | 50x102 | 60x102 |
| | | | | | 110 | 10x110 | 12x110 | 15x110 | 20x110 | 25x110 | 30x110 | 32x110 | 35x110 | 40x110 | 50x110 | 60x110 |
| 4-1/2" | 114.00 | 4" | 114.30 | | 115 | 10x115 | 12x115 | 15x115 | 20x115 | 25x115 | 30x115 | 32x115 | 35x115 | 40x115 | 50x115 | 60x115 |
| | | | | | 125 | 10x125 | 12x125 | 15x125 | 20x125 | 25x125 | 30x125 | 32x125 | 35x125 | 40x125 | 50x125 | 60x125 |
| | | 5" | 141.30 | | 140 | | | | 20x140 | 25x140 | 30x140 | 32x140 | 35x140 | 40x140 | 50x140 | 60x140 |
| | | | | | 160 | | | | 20x160 | 25x160 | 30x160 | 32x160 | 35x160 | 40x160 | 50x160 | 60x160 |
| | | 6" | 168.30 | | 168 | | | | 20x168 | 25x168 | 30x168 | 32x168 | 35x168 | 40x168 | 50x168 | 60x168 |
| | | 8" | 219.10 | | 220 | | | | 20x220 | 25x220 | 30x220 | 32x220 | 35x220 | 40x220 | 50x220 | 60x220 |
| | | 10" | 273.00 | | 273 | | | | 20x273 | 25x273 | 30x273 | 32x273 | 35x273 | 40x273 | 50x273 | 60x273 |
| | | 12" | 323.80 | | 323 | | | | 20x323 | 25x323 | 30x323 | 32x323 | 35x323 | 40x323 | 50x323 | 60x323 |
| | | 14" | 355.60 | | 356 | | | | 20x356 | 25x356 | 30x356 | 32x356 | 35x356 | 40x356 | 50x356 | 60x356 |
| | | 16" | 406.40 | | 406 | | | | 20x406 | 25x406 | 30x406 | 32x406 | 35x406 | 40x406 | 50x406 | 60x406 |
| | | 18" | 457.00 | | 457 | | | | 20x457 | 25x457 | 30x457 | 32x457 | 35x457 | 40x457 | 50x457 | 60x457 |
| | | | | | 600 | | | | 20x600 | 25x600 | 30x600 | 32x600 | 35x600 | 40x600 | 50x600 | 60x600 |
| | | 24" | 610.00 | | 609 | | | | 20x609 | 25x609 | 30x609 | 32x609 | 35x609 | 40x609 | 50x609 | 60x609 |
| | | 28" | 711.00 | | 711 | | | | 20x711 | 25x711 | 30x711 | 32x711 | 35x711 | 40x711 | 50x711 | 60x711 |

Note: Length of tubes: 1.5 m or 1.8 m for ID up to 160 mm, 1.2 m for ID above 160 mm

AEROFOAM® XLPE N CLAD SHEETS - SIZE RANGE

| | Thickness (mm) | Thickness (inches) | Size |
|------------------------------------------------------------|--------------------------------|--------------------------------------------------|---------------|
| Aerofoam® XLPE N Clad Sheets with or without self adhesive | 12, 15, 20, 25, 30, 35, 40, 50 | 1/2", 5/8", 3/4", 1", 1-1/4", 1-3/8", 1-1/2", 2" | 1.2 m x 2.4 m |

Tolerances - Sheets

| Thickness | Thickness tolerance | Length and width tolerance |
|-----------|---------------------|----------------------------|
| <25 mm | ±1.5 mm | ±20 mm |
| ≥25 mm | -2 mm, +3.5 mm | |

High mechanical strength & durability

Excellent thermal performance

UV & weather resistant foil



TECHNICAL DATA

Description: Flexible cross-linked closed cell polyolefin thermal insulation foam with factory applied durable foil for indoor and outdoor applications for mechanical and weather protection, mainly designed to control condensation and energy losses.

| Property | Value/ Assessment | Tested acc. to: |
|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------|
| Thermal conductivity (at 23 °C) | 0.036 W/m·K | ASTM C518 |
| Temperature range Max. line temperature Min. line temperature | +105 °C (+80 °C with PSA*) - 80 °C (-30 °C with PSA*) | ASTM C1427 |
| Density of foam core | 25±3 kg/m ³ | |
| Water vapor diffusion resistance factor | $\mu > 85000$ | BS EN 12086 |
| Water vapor permeance | 5.1×10^{-10} g/Pa.m ² .s | BS EN 12086 |
| Water absorption | 0.0023 g/cm ² | JIS K 6767 |
| Reaction to fire | FSI <25, SDI <50 | ASTM E84 |
| | Class 0 | BS 476 Part 6 & 7 |
| | Ignitability index 0 Spread of flame index 0 Heat evolved index 0 Smoke developed index 1 | AS 1530.3 |
| | | |
| UV ageing (UV resistance) | Excellent | ISO 4892-3 |
| Resistance to salt spray test | Excellent No changes in thermal performance & appearance | |
| Tensile strength | >950 N MD >820 N TD | ASTM D751 |
| Tear strength | >120 N MD >90 N TD | ASTM D751 |
| Puncture resistance | >700 N | ASTM D4833 |
| Resistance to fungi | Zero growth | ASTM G21 |
| Ozone resistance | Excellent | ASTM D1149 |
| Environment friendly Ozone Depletion Potential (ODP) Global Warming Potential (GWP) CFC& HCFC, dust, fibers & asbestos | 0 <5 Free | |

*PSA - Pressure Sensitive Adhesive

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.