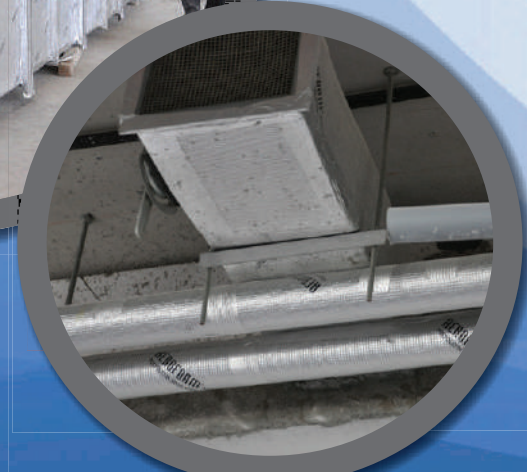


AEROFOAM[®] XLPE

INSULATION SOLUTIONS



**CROSS LINKED CLOSED-CELL
POLYOLEFIN FOAM SUITABLE
FOR CONDENSATION CONTROL,
THERMAL INSULATION &
SOUND ABSORPTION**



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

WATER TIGHT & MECHANICAL RESISTANT FOIL

PERFECT MATCH TO THE OUTER DIAMETER OF THE PIPE

FIRE CLASS AND SMOKE EMISSION

AEROFOAM® XLPE is CLASS 0 rated (BS 476 Parts 6 & 7) and achieved FSI/SDI of <math><25/</math> <math><50</math> (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 VAPOR 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 0.032 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 (CODE: AFMT-TPFNF-...) (Aerofoam Tube - Thermal Insulation Printed Foil No Adhesive Fire Rated ...)

| Pipe Size | | Thickness | | | | | | | |
|-----------|-----|-----------|--------|--------|--------|--------|--------|--------|--------|
| Inch | mm | 10mm | 12mm | 15mm | 20mm | 25mm | 30mm | 40mm | 50mm |
| | 6 | 6x10 | 6x12 | 6x15 | 6x20 | 6x25 | 6x30 | 6x40 | - |
| | 9 | 9x10 | 9x12 | 9x15 | 9x20 | 9x25 | 9x30 | 9x40 | - |
| | 12 | 12x10 | 12x12 | 12x15 | 12x20 | 12x25 | 12x30 | 12x40 | - |
| | 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 | - | - | 140x15 | 140x20 | 140x25 | 140x30 | 140x40 | 140x50 |
| | 160 | - | - | 160x15 | 160x20 | 160x25 | 160x30 | 160x40 | 160x50 |
| 6" | 166 | - | - | 166x15 | 166x20 | 166x25 | 166x30 | 166x40 | 166x50 |
| | 168 | - | - | 168x15 | 168x20 | 168x25 | 168x30 | 168x40 | 168x50 |
| 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® XLPE ROLLS (CODE: AFMR-TPFAF-...)& SHEETS (CODE: AFMS-TPFAF-...) (AFMR: Aerofoam Roll/ AMFS: Aerofoam Sheets) (TPFAF: Thermal Insulation Fire Rated Adhesive Fire Rated)

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

Tolerance: Thickness : ±1.5 mm; Length: ±2cm
SA- self adhesive; AL - alupet foil; N CLAD-No Cladding

ACCESSORIES

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



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/ Assesment | 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 λ[W/(m•K)] at 23[°C] | 0.032 | ASTM C518 : 2015 |
| Water vapour diffusion resistance factor (μ) | 54,700 | BS EN 12086 : 1997 |
| Water vapor permeance [perms] | 0 | ASTM E96 |
| Water absorption [Kg/m²] | 0.05 0.00008 | BS EN 12087:1997 JIS K6767 : 1995 (method-A) |
| Reaction to fire | Class 0 Class A FM Certificate HF-1 B-s1,d0 0,0,0,1 | BS 476 Parts 6&7 ASTM E84 FM Global UL 94 DIN EN 13501-1 AS1530.3 |
| Smoke and toxicity 1. Smoke toxicity levels 2. Toxic smoke | Passed Complied | 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 (Salt Fog Test) | Excellent | ASTM B117 |
| Compression set | 35.77% (for 25mm) 34.22% (for 32mm) | ASTM D3574 |
| Resistance to fungi | Zero Growth | ASTM G21: 2009 |
| Resistance to bacteria | Passed | ISO 22196 : 2007 |
| Chemical Analysis (Leachable ions) | Very low | ASTM C871 |
| Emission (VOC level) Leed support | <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 | |

*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.

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