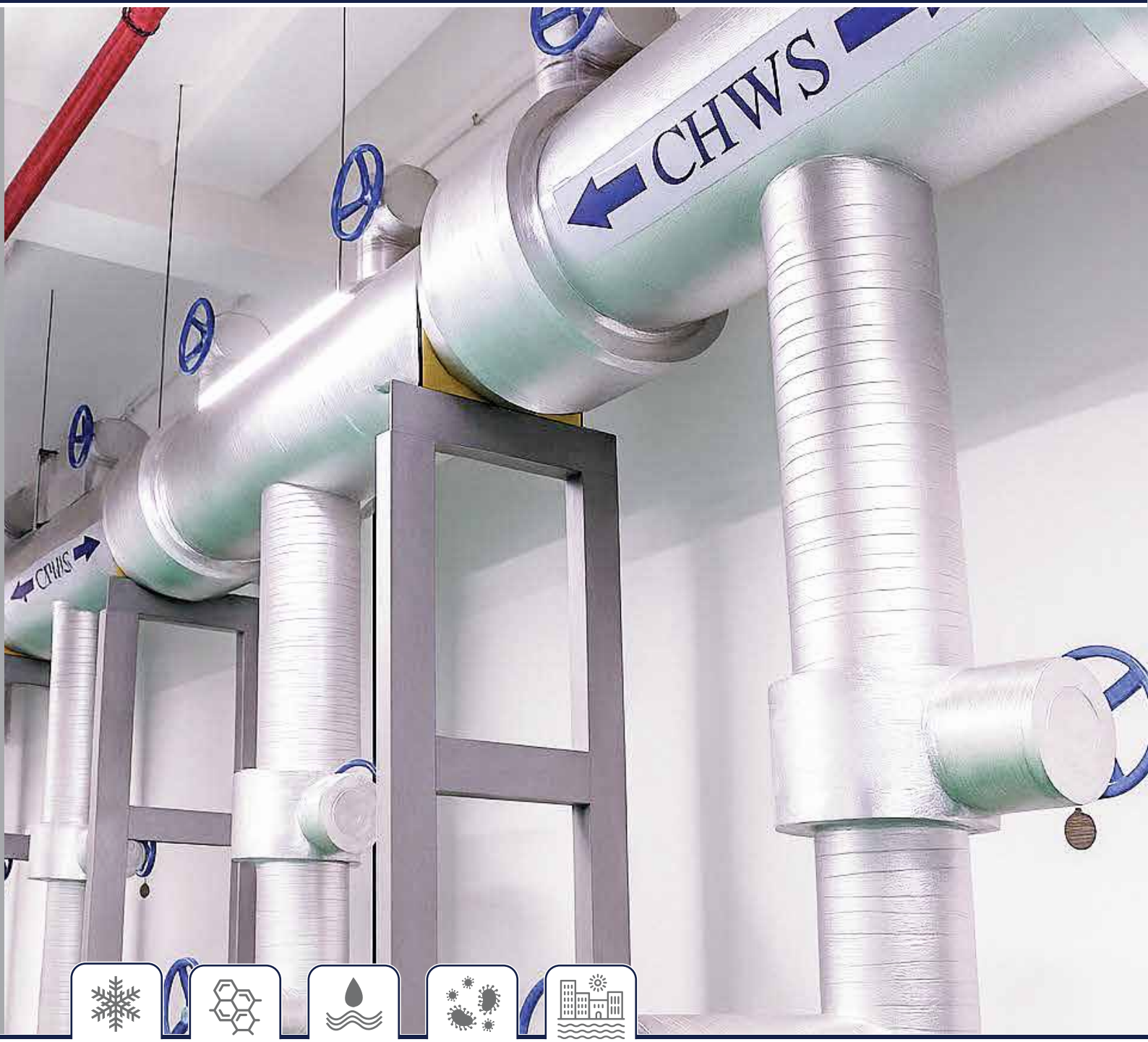
# AEROFOAM® -XF




## *Cross-Linked Closed Cell Polyolefin Thermal Insulation Foam*

CLASS 0
ASTM E84

E533114

FM APPROVED

GREENGUARD

Tubes

EPD INTERNATIONAL EPD SYSTEM

Sheets and Rolls

EPD INTERNATIONAL EPD SYSTEM

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# AEROFOAM® XF TUBES, SHEETS & ROLLS

Aerofoam® XF is a cross-linked closed-cell polyolefin thermal insulation foam with factory applied reinforced aluminum foil, designed to control condensation and energy loses. It is suitable for such applications like duct and pipe insulation for air conditioning, cold water, chilled water, hot water and refrigeration.

Designed for indoor and outdoor applications, however outdoor application need additional protection against weather conditions and UV radiation.





## FEATURES

- Closed cell structure
- Resistant to bacteria
- Environmental friendly foam
- Prevent condensation
- High mechanical strength
- Ozone Resistant
- Excellent thermal efficiency
- Flexible foam easy to install
- Resistant to mold & mildew growth
- Suitable for low temperature applications
- Suitable for coastal area applications
- Suitable for cooling & heating systems

## APPLICATIONS









## 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® XF TUBES - SIZE RANGE

| Copper Pipes for AC & Refrigeration | | Steel Pipe | | Aerofoam® XF Nominal ID | | Aerofoam® XF Tubes Size Range | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OD [inch] | OD [mm] | Nom Size [inch] | OD [mm] | inch | mm | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 50 |
| 1/4" | 6.35 | | | 1/4" | 6 | 10x6 | 15x6 | 20x6 | 25x6 | 30x6 | 35x6 | 40x6 | |
| 3/8" | 9.52 | | | 3/8" | 9 | 10x9 | 15x9 | 20x9 | 25x9 | 30x9 | 35x9 | 40x9 | |
| 1/2" | 12.70 | | | 1/2" | 13 | 10x13 | 15x13 | 20x13 | 25x13 | 30x13 | 35x13 | 40x13 | |
| 5/8" | 15.88 | 1/4" | 13.70 | 5/8" | 16 | 10x16 | 15x16 | 20x16 | 25x16 | 30x16 | 35x16 | 40x16 | |
| 3/4" | 19.05 | | | 3/4" | 20 | 10x20 | 15x20 | 20x20 | 25x20 | 30x20 | 35x20 | 40x20 | |
| 7/8" | 22.22 | 1/2" | 21.30 | 7/8" | 22 | 10x22 | 15x22 | 20x22 | 25x22 | 30x22 | 35x22 | 40x22 | |
| 1" | 25.40 | | | 1" | 25 | 10x25 | 15x25 | 20x25 | 25x25 | 30x25 | 35x25 | 40x25 | |
| 1-1/8" | 28.58 | 3/4" | 26.70 | 1-1/8" | 28 | 10x28 | 15x28 | 20x28 | 25x28 | 30x28 | 35x28 | 40x28 | |
| 1-3/8" | 34.93 | 1" | 33.70 | 1-1/4" | 32 | 10x32 | 15x32 | 20x32 | 25x32 | 30x32 | 35x32 | 40x32 | 50x32 |
| | | | | 1-3/8" | 35 | 10x35 | 15x35 | 20x35 | 25x35 | 30x35 | 35x35 | 40x35 | 50x35 |
| | | | | 1-1/2" | 40 | 10x40 | 15x40 | 20x40 | 25x40 | 30x40 | 35x40 | 40x40 | 50x40 |
| 1-5/8" | 41.28 | 1-1/4" | 42.20 | 1-5/8" | 43 | 10x43 | 15x43 | 20x43 | 25x43 | 30x43 | 35x43 | 40x43 | 50x43 |
| 1-7/8" | 48.00 | 1-1/2" | 48.30 | 1-7/8" | 48 | 10x48 | 15x48 | 20x48 | 25x48 | 30x48 | 35x48 | 40x48 | 50x48 |
| | | | | 2" | 50 | 10x50 | 15x50 | 20x50 | 25x50 | 30x50 | 35x50 | 40x50 | 50x50 |
| 2-1/8" | 53.98 | | | 2-1/8" | 54 | 10x54 | 15x54 | 20x54 | 25x54 | 30x54 | 35x54 | 40x54 | 50x54 |
| 2-3/8" | 60.30 | 2" | 60.30 | 2-3/8" | 60 | 10x60 | 15x60 | 20x60 | 25x60 | 30x60 | 35x60 | 40x60 | 50x60 |
| | | | | | 75 | 10x75 | 15x75 | 20x75 | 25x75 | 30x75 | 35x75 | 40x75 | 50x75 |
| 3" | 76.00 | 2-1/2" | 73.00 | 3" | 77 | 10x77 | 15x77 | 20x77 | 25x77 | 30x77 | 35x77 | 40x77 | 50x77 |
| 3-1/8" | 79.00 | | | | 79 | 10x79 | 15x79 | 20x79 | 25x79 | 30x79 | 35x79 | 40x79 | 50x79 |
| 3-1/2" | 89.00 | 3" | 88.90 | 3-1/2" | 90 | 10x90 | 15x90 | 20x90 | 25x90 | 30x90 | 35x90 | 40x90 | 50x90 |
| 4" | 102.00 | | | 4" | 102 | 10x102 | 15x102 | 20x102 | 25x102 | 30x102 | 35x102 | 40x102 | 50x102 |
| | | | | | 110 | 10x110 | 15x110 | 20x110 | 25x110 | 30x110 | 35x110 | 40x110 | 50x110 |
| 4-1/2" | 114.00 | 4" | 114.30 | | 115 | 10x115 | 15x115 | 20x115 | 25x115 | 30x115 | 35x115 | 40x115 | 50x115 |
| | | | | | 125 | 10x125 | 15x125 | 20x125 | 25x125 | 30x125 | 35x125 | 40x125 | 50x125 |
| | | 5" | 141.30 | | 140 | | 15x140 | 20x140 | 25x140 | 30x140 | 35x140 | 40x140 | 50x140 |
| | | | | | 160 | | 15x160 | 20x160 | 25x160 | 30x160 | 35x160 | 40x160 | 50x160 |
| | | 6" | 168.30 | | 168 | | 15x168 | 20x168 | 25x168 | 30x168 | 35x168 | 40x168 | 50x168 |
| | | 8" | 219.10 | | 220 | | | 20x220 | 25x220 | 30x220 | 35x220 | 40x220 | 50x220 |

**Note:** Length of tubes: 2m for ID≤160mm; 1.2m for ID > 160mm

# AEROFOAM® XF ROLLS & SHEETS- SIZE RANGE

| Thickness | | Product Range | | | |
|---|---|---|---|---|---|
| Inch | mm | Size | Surface | Type | XLPE SA-AL |
| 1/8" | 3 | 1.2m×50 m | 60 m2 | Roll | 3 SA-AL |
| 1/4" | 5 | 1.2m×50 m | 60 m2 | Roll | 5 SA-AL |
| 3/8" | 10 | 1.2m×20m | 24m2 | Roll | 10 SA-AL |
| 1/2" | 12 | 1.2m×20m | 24m2 | Roll | 12 SA-AL |
| 5/8" | 15 | 1.2m×20m | 24m2 | Roll | 15 SA-AL |
| 3/4" | 20 | 1.2m×20m | 24m2 | Roll | 20 SA-AL |
| 1" | 25 | 1.2mx2.4m<br>1.2mx 15m | 2.88 m2<br>18 m2 | Roll | 25 SA-AL |
| 1_1/6" | 30 | 1.2mx2.4m | 2.88m2 | Sheet | 30 SA-AL |
| 1_3/8" | 35 | 1.2mx2.4m | 2.88m2 | Sheet | 35 SA-AL |
| 1 1/2" | 40 | 1.2mx2.4m | 2.88m2 | Sheet | 40 SA-AL |
| 2" | 50 | 1.2mx2.4m | 2.88m2 | Sheet | 50 SA-AL |

*Other sizes available upon request and subject to MOQ.

| Tolerances - Rolls & Sheets | | | |
|---|---|---|---|
| Thickness | Thickness tolerance | Length tolerance | Width toleran |
| < 25 mm | ± 1.5 mm | ±20 mm (Sheets) | ±20 mm |
| >25 mm | -2 mm, +3.5 mm | ±50 mm (Rolls) | |

| Tolerance - Tube (foam core only) | |
|---|---|
| Thickness | ≤10-25 mm: ± 1.5 mm |
| | 30-60 mm: -2 mm; +3.5 mm |
| Length | ±20 mm |



# TECHNICAL DATA

***Description:*** Aerofoam® XF is a light or dark grey flexible, cross-linked closed-cell polyolefin thermal insulation foam with factory applied reinforced aluminum foil facer for mechanical protection, mainly designed to control condensation and energy losses.

| Property | Value/Assessment | Tested acc. to: |
|---|---|---|
| **Thermal conductivity**<br>At 23° C - 40° C | 0.032-0.04 W/m·K | ASTM C518 |
| **Temperature range**<br>Max. line temperature<br>Min. line temperature<br>*Please consult our technical team for applications with temperatures below -40 °C* | +105 °C (+80 °C with PSA*)<br>-80 °C (-30 °C with PSA*) | ASTM D3574-17 |
| **Density of foam core** | 25 kg/m³ (±3 kg/m³) | |
| **Water vapor diffusion** | μ>95000 | BS EN 12086 |
| **Water vapor permeance** | 0.027 ng/Pa.s.m² | ASTM E96 |
| **Water absorption** | 0.19% | ASTM C209/ASTM C1763 |
| **Reaction to fire** | FSI<25, SDI<50 | ASTM E84 |
| | Class 0 | BS 476 part 6 & 7 |
| | HF-1 | UL94 |
| | Ignitability Index 0<br>Spread of Flame Index 0<br>Heat Evolved Index 0<br>Smoke Developed Index 1 | AS/NZ 1530.3 |
| **FM approval** | Approved | FM 4924 |
| **Resistance to fungi** | Zero growth | ASTM G21 |
| **Resistance to bacteria** | Zero growth | ISO 22196 |
| **TVOC (Emission rate - 24 hours)** | <50 ug/m².h | CDPH V1.2/ASTM D5116 |
| | UL Greenguard Gold Certfied | UL 2818 / CDPH v1.2. |
| **Environment friendly**<br>Ozone Depletion Potential (ODP)<br>Global Warming Potential (GWP)<br>CFC & HCFC, dust, fibres & asbestos | <br>0<br><5<br>Free | |

**Storage life**

*Can be stored for 24 months (12 months with PSA*) from manufacturing date in a dry, clean, dust free room at normal humidity and ambient temperature.*

**Note:** All outdoor applications of Aerofoam® XF need to be protected by Aerofoam® approved coating or weather resistant cladding.

**Disclaimer:** This information on Hira Manufacturing 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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