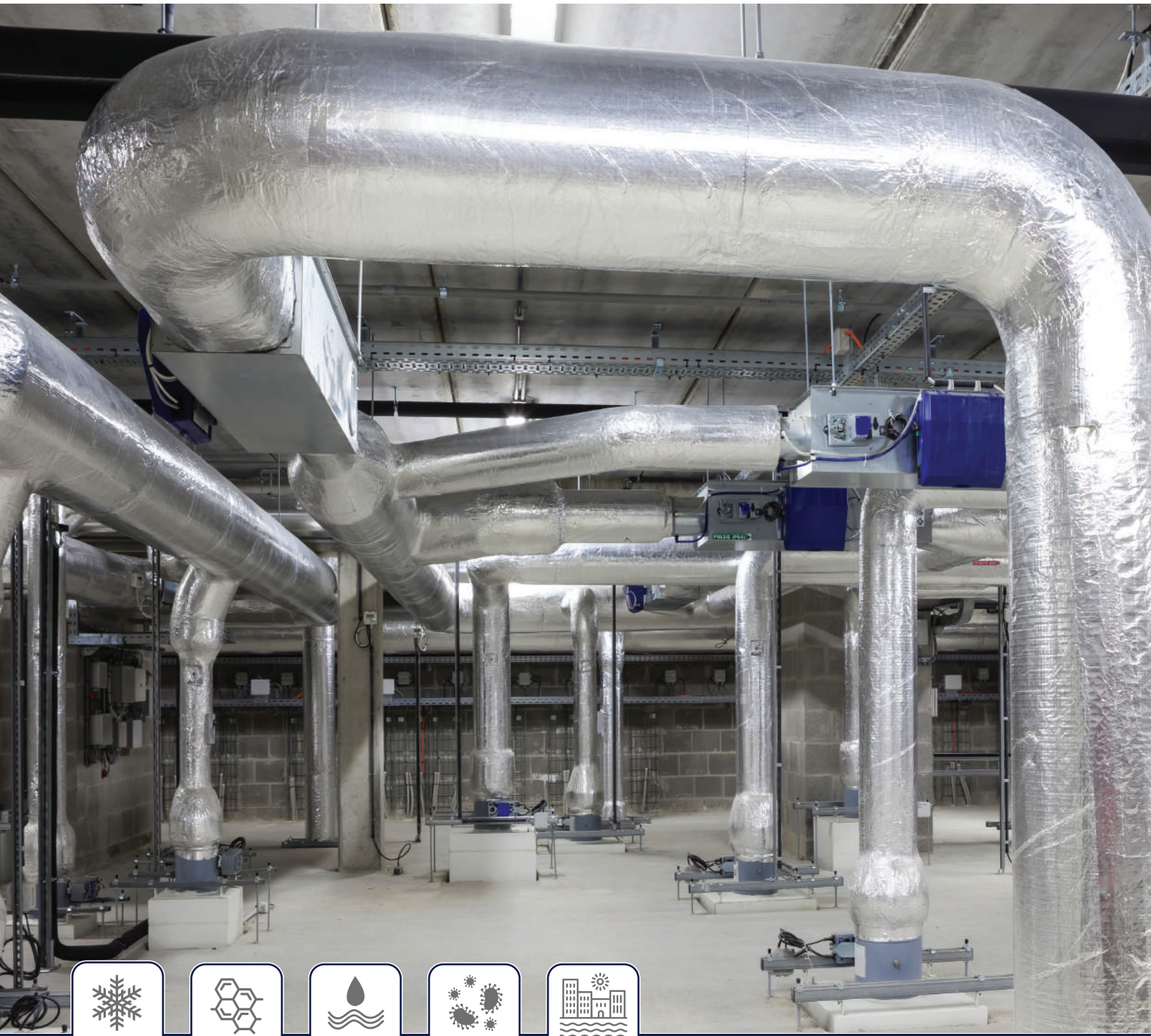


# AEROFOAM<sup>®</sup> -XF



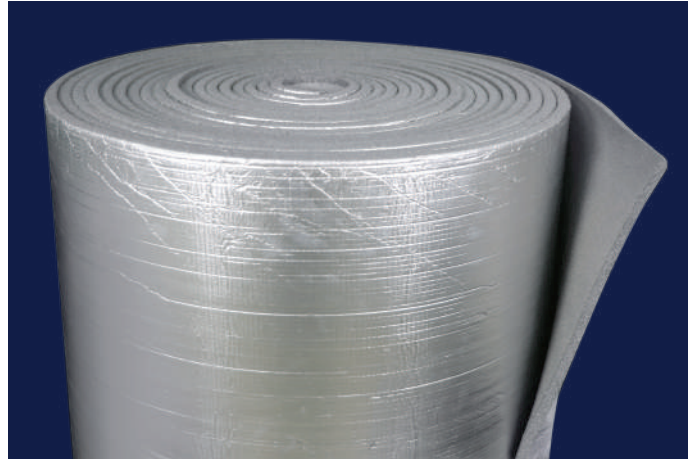
## *Cross-Linked Closed Cell Polyolefin Thermal Insulation Foam*















# 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 losses. It is suitable for HVAC ducts and pipes, as well as plumbing pipes.

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



## FEATURES

-  Closed cell structure
-  Resistant to bacteria
-  Environmentally 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

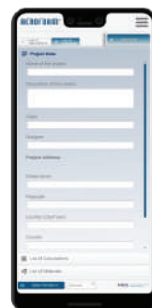
## APPLICATIONS



## AEROCALC

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

Visit our website: [www.aerofoamusa.com](http://www.aerofoamusa.com)



Scan the QR code to download the Desktop app.



## AEROFOAM® XF TUBES - SIZE RANGE

Tube inner diameter	R-Value									
	Wall thickness (Inch)									
Inch	3/8"	1/2"	5/8"	3/4"	1"	1-1/5"	1-1/4"	1-3/8"	1-1/2"	2"
1/4"	3.2	4.7	6.3	7.9	11.5	14.6	15.4	17.4	19.4	28.0
3/8"	2.8	4.0	5.4	6.8	9.9	12.5	13.2	14.9	16.7	24.2
1/2"	2.6	3.7	4.9	6.2	9.1	11.5	12.1	13.7	15.3	22.3
5/8"	2.4	3.5	4.6	5.9	8.5	10.7	11.3	12.8	14.4	20.8
3/4"	2.3	3.3	4.4	5.6	8.0	10.2	10.7	12.1	13.6	19.7
	2.3	3.3	4.3	5.5	7.9	10.0	10.5	11.9	13.3	19.4
7/8"	2.3	3.2	4.2	5.3	7.7	9.7	10.3	11.6	13.0	18.9
1"	2.2	3.1	4.1	5.2	7.4	9.4	9.9	11.2	12.5	18.1
1-1/8"	2.2	3.0	4.0	5.0	7.2	9.1	9.6	10.8	12.1	17.5
1-1/4"	2.1	3.0	3.9	4.9	7.0	8.8	9.3	10.5	11.7	17.0
1-3/8"	2.1	2.9	3.8	4.8	6.8	8.6	9.0	10.2	11.4	16.5
	2.0	2.8	3.7	4.6	6.6	8.3	8.7	9.8	10.9	15.8
1-5/8"	2.0	2.8	3.7	4.6	6.6	8.2	8.7	9.8	10.9	15.7
2"	2.0	2.7	3.6	4.4	6.2	7.8	8.2	9.3	10.3	14.8
2-3/8"	1.9	2.7	3.5	4.3	6.0	7.5	7.9	8.9	9.9	14.2
3"	1.9	2.6	3.3	4.1	5.8	7.1	7.5	8.4	9.4	13.4
	1.9	2.6	3.3	4.1	5.7	7.1	7.5	8.4	9.3	13.3
3-1/2"	1.9	2.5	3.3	4.0	5.6	6.9	7.3	8.2	9.1	12.9
4-1/4"	1.8	2.5	3.2	3.9	5.4	6.7	7.0	7.9	8.7	12.3
4-1/2"	1.8	2.5	3.2	3.9	5.4	6.6	7.0	7.8	8.6	12.2
5"	1.8	2.5	3.1	3.8	5.3	6.5	6.8	7.6	8.5	11.9
	1.8	2.4	3.1	3.8	5.2	6.4	6.7	7.5	8.3	11.7
	1.8	2.4	3.1	3.7	5.1	6.3	6.6	7.4	8.1	11.4
6-1/2"	1.8	2.4	3.1	3.8	5.2	6.4	6.7	7.4	8.2	11.5
8-3/4"	1.8	2.4	3.0	3.7	5.0	6.1	6.4	7.2	7.9	11.0

## SPECIFICATION COMPLIANCE:

- ASTM C1427
- NFPA 90A & 90B
- ASTM E84
- NFPA 255
- UL 723 (R39241)
- UL 94 (E361452)
- FM 4924
- Meets energy code requirements ASHRAE 90.1 & 189.1

## ACCESSORIES



## AEROFOAM® XF SHEETS & ROLLS - SIZE RANGE

Inch	Wall thickness (Inch)						
	1/8"	2/9"	3/8"	1/2"	5/8"	3/4"	1"
R-Value	0.6	1.0	1.7	2.3	2.8	3.4	4.5

## SIZE AVAILABILITY TUBES




ID	Thickness
1-4" - 5"	3/8" - 5/8"
1-4" - 8-3/4"	3/4" - 1-1/2"
1-2" - 8-3/4"	2"

## SHEETS & ROLLS

Thickness
1-4" - 1"

## CERTIFICATION MARKS

Below material thicknesses had been certified and approved by respective third party certification bodies:

Thickness						
	UL 723		UL 94		FM 4924	
	Tubes	Sheets & Rolls	Tubes	Sheets & Rolls	Tubes	Sheets & Rolls
1/8"			✓	✓	✓	✓
1/4"			✓	✓	✓	✓
1/2"	✓	✓	✓	✓	✓	✓
5/8"	✓	✓	✓	✓	✓	✓
1"	✓	✓	✓	✓	✓	✓
1-1/6"	✓		✓		✓	
1-1/2"	✓		✓		✓	
2"	✓		✓		✓	

# 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:
<b>Thermal conductivity</b> at 73 °F	0.22 BTU-in/h-ft <sup>2</sup>	ASTM C518
<b>Temperature range</b> Max. line temperature <i>Please consult our technical team for applications with temperatures below -40 °F.</i>	+221 °F (+176 °F with PSA*) -112 °F (-22 °F with PSA*)	ASTM C411
<b>Density of foam core</b>	1.56 lbs/ft <sup>3</sup>	
<b>Water vapor diffusion</b>	μ>50000	ASTM E96
<b>Water vapor permeance</b>	<0.01 perm-inch	ASTM E96
<b>Water absorption</b>	0.0012 oz/in <sup>2</sup>	BS EN 12087
<b>Reaction to fire</b>	FSI<25 & SDI<50 Class 0 HF-1  Ignitability index: 0 Spread of flame index: 0 Heat evolved index: 0 Smoke developed index: 1	ASTM E84/UL723** BS 476 part 6 & 7 UL94**  AS/NZ 1530.3
<b>FM approval</b>	Approved	FM 4924**
<b>Smoke &amp; toxicity</b>	Passed	BS EN 45545
<b>Chemical analysis</b>	<0.05% (water soluble chloride ions) pH - 7.6	ASTM C871
<b>Resistance to fungi</b>	Zero growth	ASTM G21
<b>Resistance to bacteria</b>	Zero growth	ISO 22196
<b>TVOC (Emission rate - 24 hours)</b>	<0.01 mg/m <sup>3</sup>	CDPH V1.2
<b>Environment friendly</b> Ozone Depletion Potential (ODP) Global Warming Potential (GWP) CFC & HCFC, dust, fibres & asbestos	0 <5 Free	
<b>Note:</b> All outdoor applications of Aerofoam® XF need to be protected by Aerofoam® approved coating or weather resistant cladding.		

\*PSA - Pressure Sensitive Adhesive

\*\* Certificates and classification marks applicable for selected thicknesses only. Please refer to page no. 3 for more details.

**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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