

## FOAM PIPE INSULATION

Closed Cell Thermal Polyethylene Foam Pipe Insulation is CFC, HCFC, HFC, chlorine free and flexible. Black in color and is available in half-slit and self-sealing tubular form.

Non-porous, non-fibrous and resists mold growth. Completely recyclable and cost effective.

### SIZES

- Wall thickness: 3/8", 1/2", 3/4", 1" and 1 1/2"
- Inside diameter, tubular form: 3/8" to 4 1/2"
- Length of sections, tubular form: 6'



### APPLICATIONS

Used to retard heat gain and prevent condensation on cold water plumbing and air conditioning lines. It also retards heat loss for hot water plumbing and HVAC systems for temperatures below 200°F.

#### Technical Data

PHYSICAL PROPERTIES	LSP PE-CC	TEST METHODS	REQUIRED	PASS/FAIL
Nominal Density, pcf	1.5 +/-0.5	ASTM D1622		
Specification		ASTM C1427, Type I, Type II		
*Upper Use Limit, °F (°C)	200 (93)	ASTM C411	200 (93)	Pass
*Lower Use Limit, °F (°C)	-200 (-129)		-150 (-101)	Pass
Thermal Conductivity, Btu-in./hr-ft² °F (W/(m-K))		ASTM C177 OR C518		
75°F (24°C) Mean Temp	.27 (.039)		<0.35 (.050)	Pass
120°F (49°C) Mean Temp	.295 (.042)		<0.37 (.053)	Pass
Water Vapor Permeability	<0.05	ASTM E96	0.05 max	Pass
Water Absorption Max %	<0.20	ASTM C209	% by volume (0.20 max)	Pass
Linear Shrinkage at Max Use Temp (200°F)	-1.2%	ASTM C1427	% change (2.0 max)	Pass
**Flame/Smoke Rating (max)* Up to and including 1" Thickness	25/50	ASTM E84	25/50	Pass
VOC Content	< 0.22 mg/m³	COPH Standard Method v 1.2	< 0.5 mg/m³	Pass
Microbial Resistance	Excellent	ASTM G21	No Growth	Pass
Fungi Resistance	Excellent	UL 181	No Growth	Pass
Odor Emission	None	ASTM C1304	None	Pass
Corrosion Resistance (Steel, Copper, AL)	None	ASTM C665	None	Pass
Ozone Resistance (50 mPa)	No Cracks	ASTM D1171	No Cracks	Pass

\*Meets the requirements of NFPA 90A/90B when tested at 250°F (125°C)

\*\*Numerical flammability ratings alone may not define the performance of products under actual fire conditions. They are provided only for the use in the selection of products

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**Thickness Recommendations - to Prevent Condensation**

Service Temperature	50°F (10°C)			35°F (2°C)			0°F (-18°C)			-20°F (-29°C)		
	Pipe Size	Mild	Normal	Severe	Mild	Normal	Severe	Mild	Normal	Severe	Mild	Normal
3/8" ID to 1-1/8" ID	3/8"	3/8"	3/4"	3/8"	1/2"	3/4"	1/2"	3/4"	–	1/2"	1"	–
1-3/8" ID to 4-1/2" ID	3/8"	3/8"	3/4"	3/8"	3/4"	1"	1/2"	1"	–	3/4"	–	–

**Range**

Wall Thickness (nominal)	3/8", 1/2", 3/4" and 1" - (10, 13, 19 & 25 mm)
Inside Diameter, Tubular Form	3/8" - 4-1/2" ID - (10mm ID to 114mm ID)
Length of Sections, Tubular Form	6" (1.83 mm)

Thickness listed for the specified ranges will prevent condensation on indoor piping under the defined design conditions. Normal 85°F and 70% R.H. Mild: Most air conditioned spaces and arid climates: 80°F and 50% R.H. Severe: Areas where excessive moisture is introduced or in poorly ventilated areas where the temperature may be depressed below the ambient: 90°F and 80% R.H.

**"R" Values**

Nominal Insulation I.D.	Copper Tube Size (nom. I.D. plumbing)	Copper Tube Size (O.D. HVAC/R)	IPS Nominal	3/8"	1/2"	3/4"	1"
3/8"	1/4"	3/8"	1/8"	2.6	3.5	5.5	8.4
1/2"	3/8"	1/2"	1/4"	2.5	3.3	5.2	7.9
5/8"	1/2"	5/8"	3/8"	2.9	3.2	5.3	7.4
3/4"	5/8"	3/4"	1/2"	2.3	3.0	5.3	7.3
7/8"	3/4"	7/8"	–	2.2	3.1	5.3	7.0
1"	–	–	3/4"	2.2	3.1	5.2	7.2
1-1/8"	1"	1-1/8"	–	2.2	3.0	5.4	6.9
1-1/4"	1-1/8"	1-1/4"	–	2.2	3.2	5.3	6.8
1-3/8"	1-1/4"	1-3/8"	1"	2.1	3.1	5.1	7.2
1-5/8"	1-1/2"	1-5/8"	1-1/4"	2.4	3.0	5.0	6.9
2"	–	–	1-1/2"	2.3	2.9	4.8	6.6
2-1/8"	2"	2-1/8"	–	2.3	2.9	4.8	6.5
2-3/8"	–	–	2"	2.3	2.9	4.7	6.4
2-5/8"	2-1/2"	2-5/8"	–	2.2	3.0	4.6	6.2
2-7/8"	–	–	2-1/2"	2.2	3.0	4.5	6.1
3-1/8"	3"	3-1/8"	–	2.2	3.0	4.5	6.1
3-1/2"	–	–	3"	2.3	3.0	4.5	6.0
3-5/8"	3-1/2"	3-5/8"	–	2.3	3.1	4.5	6.0
4-1/8"	4"	4-1/8"	–	2.2	3.1	4.5	5.8
4-1/2"	–	–	4"	2.3	3.1	4.6	5.9

Product Submittal	
Job Name:	Date:
Part Number:	Quantity:
Architect:	
Contractor:	

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Case Qty	Product Number	Description
210'	F-01234-HS	Half-slit 1/2" ID X 3/4" Wall
120'	F-03410-HS	Half-slit 3/4" ID X 1" Wall
264'	F-03412-HS	Half-slit 3/4" ID X 1/2" Wall
162'	F-03434-HS	Half-slit 3/4" ID X 3/4" Wall
300'	F-03438-HS	Half-slit 3/4" ID X 3/8" Wall
228'	F-03834-HS	Half-slit 3/8" ID X 3/4" Wall
120'	F-05810-HS	Half-slit 5/8" ID X 1" Wall
300'	F-05812-HS	Half-slit 5/8" ID X 1/2" Wall
180'	F-05834-HS	Half-slit 5/8" ID X 3/4" Wall
396'	F-05838-HS	Half-slit 5/8" ID X 3/8" Wall
96'	F-07810-HS	Half-slit 7/8" ID X 1" Wall
240'	F-07812-HS	Half-slit 7/8" ID X 1/2" Wall
150'	F-07834-HS	Half-slit 7/8" ID X 3/4" Wall
276'	F-07838-HS	Half-slit 7/8" ID X 3/8" Wall
84'	F-11810-HS	Half-slit 1 1/8" ID X 1" Wall
186'	F-11812-HS	Half-slit 1 1/8" ID X 1/2" Wall
54'	F-11815-HS	Half-slit 1 1/8" ID X 1 1/2" Wall
120'	F-11834-HS	Half-slit 1 1/8" ID X 3/4" Wall
222'	F-11838-HS	Half-slit 1 1/8" ID X 3/8" Wall
72'	F-13810-HS	Half-slit 1 3/8" ID X 1" Wall
150'	F-13812-HS	Half-slit 1 3/8" ID X 1/2" Wall
36'	F-13815-HS	Half-slit 1 3/8" ID X 1 1/2" Wall
96'	F-13834-HS	Half-slit 1 3/8" ID X 3/4" Wall
180'	F-13838-HS	Half-slit 1 3/8" ID X 3/8" Wall
60'	F-15810-HS	Half-slit 1 5/8" ID X 1" Wall
120'	F-15812-HS	Half-slit 1 5/8" ID X 1/2" Wall
36'	F-15815-HS	Half-slit 1 5/8" ID X 1 1/2" Wall
84'	F-15834-HS	Half-slit 1 5/8" ID X 3/4" Wall
138'	F-15838-HS	Half-slit 1 5/8" ID X 3/8" Wall
54'	F-20010-HS	Half-slit 2" ID X 1" Wall
102'	F-20012-HS	Half-slit 2" ID X 1/2" Wall
66'	F-20034-HS	Half-slit 2" ID X 3/4" Wall
126'	F-20038-HS	Half-slit 2" ID X 3/8" Wall
54'	F-21810-HS	Half-slit 2 1/8" ID X 1" Wall
84'	F-21812-HS	Half-slit 2 1/8" ID X 1/2" Wall
54'	F-21834-HS	Half-slit 2 1/8" ID X 3/4" Wall
96'	F-21838-HS	Half-slit 2 1/8" ID X 3/8" Wall
42'	F-23810-HS	Half-slit 2 3/8" ID X 1" Wall
72'	F-23812-HS	Half-slit 2 3/8" ID X 1/2" Wall
84'	F-23838-HS	Half-slit 2 3/8" ID X 3/8" Wall
36'	F-25810-HS	Half-slit 2 5/8" ID X 1" Wall
60'	F-25812-HS	Half-slit 2 5/8" ID X 1/2" Wall
48'	F-25834-HS	Half-slit 2 5/8" ID X 3/4" Wall
72'	F-25838-HS	Half-slit 2 5/8" ID X 3/8" Wall
30'	F-27810-HS	Half-slit 2 7/8" ID X 1" Wall
54'	F-27812-HS	Half-slit 2 7/8" ID X 1/2" Wall
60'	F-27838-HS	Half-slit 2 7/8" ID X 3/8" Wall
24'	F-31210-HS	Half-slit 3 1/2" ID X 1" Wall
36'	F-31212-HS	Half-slit 3 1/2" ID X 1/2" Wall
30'	F-31234-HS	Half-slit 3 1/2" ID X 3/4" Wall
24'	F-31810-HS	Half-slit 3 1/8" ID X 1" Wall
48'	F-31812-HS	Half-slit 3 1/8" ID X 1/2" Wall
36'	F-31834-HS	Half-slit 3 1/8" ID X 3/4" Wall
36'	F-35812-HS	Half-slit 3 5/8" ID X 1/2" Wall
30'	F-35834-HS	Half-slit 3 5/8" ID X 3/4" Wall
54'	F-35838-HS	Half-slit 3 5/8" ID X 3/8" Wall
18'	F-41210-HS	Half-slit 4 1/2" ID X 1" Wall
24'	F-41212-HS	Half-slit 4 1/2" ID X 1/2" Wall
24'	F-41810-HS	Half-slit 4 1/8" ID X 1" Wall
30'	F-41812-HS	Half-slit 4 1/8" ID X 1/2" Wall
24'	F-41834-HS	Half-slit 4 1/8" ID X 3/4" Wall
210'	F-01234-SS	Self-sealing 1/2" ID X 3/4" Wall
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264'	F-03412-SS	Self-sealing 3/4" ID X 1/2" Wall

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162'	F-03434-SS	Self-sealing 3/4" ID X 3/4" Wall
300'	F-03438-SS	Self-sealing 3/4" ID X 3/8" Wall
228'	F-03834-SS	Self-sealing 3/8" ID X 3/4" Wall
120'	F-05810-SS	Self-sealing 5/8" ID X 1" Wall
300'	F-05812-SS	Self-sealing 5/8" ID X 1/2" Wall
180'	F-05834-SS	Self-sealing 5/8" ID X 3/4" Wall
396'	F-05838-SS	Self-sealing 5/8" ID X 3/8" Wall
96'	F-07810-SS	Self-sealing 7/8" ID X 1" Wall
240'	F-07812-SS	Self-sealing 7/8" ID X 1/2" Wall
150'	F-07834-SS	Self-sealing 7/8" ID X 3/4" Wall
276'	F-07838-SS	Self-sealing 7/8" ID X 3/8" Wall
96'	F-10010-SS	Self-sealing 1" ID X 1" Wall
210'	F-10012-SS	Self-sealing 1" ID X 1/2" Wall
168'	F-11412-SS	Self-sealing 1 1/4" ID X 1/2" Wall
114'	F-11434-SS	Self-sealing 1 1/4" ID X 3/4" Wall
84'	F-11810-SS	Self-sealing 1 1/8" ID X 1" Wall
186'	F-11812-SS	Self-sealing 1 1/8" ID X 1/2" Wall
120'	F-11834-SS	Self-sealing 1 1/8" ID X 3/4" Wall
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72'	F-25838-SS	Self-sealing 2 5/8" ID X 3/8" Wall
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24'	F-41234-SS	Self-sealing 4 1/2" ID X 3/4" Wall
36'	F-41238-SS	Self-sealing 4 1/2" ID X 3/8" Wall
24'	F-41810-SS	Self-sealing 4 1/8" ID X 1" Wall
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