



## Innofoam

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### Thickness Recommendations\* – To Control Condensation

Pipe Size	Line Temp. 50°F	Line Temp. 30°F	Line Temp. 0°F
Normal Conditions (Max 85°F-70%RH)			
3/8"ID through 2" IPS	3/8" Wall	1/2" Wall	1" Wall
Over 2" IPS through 4" IPS	1/2" Wall	1/2" Wall	1" Wall
Mild Conditions (Max 80°F-50%RH)			
3/8"ID through 3" IPS	3/8" Wall	3/8" Wall	1/2" Wall
Over 3" IPS through 4" IPS	1/2" Wall	1/2" Wall	1/2" Wall
Severe Conditions (Max 90°F-80%RH)			
3/8"ID through 4" IPS	3/4" Wall	1" Wall	----

\*Innofoam® in thickness noted within the specific temperature ranges will prevent condensation on indoor piping under the design conditions listed below:

Normal: Maximum severity of indoor conditions seldom exceed 85°F and 70%RH in the United States.

Mild: Typical conditions are most air-conditioned spaces and arid climates.

Severe: Generally found in areas under which excessive moisture is introduced or in poorly ventilated areas where temperature may be depressed below the ambient. Under conditions of high humidity, additional insulation may be required.

## PRODUCT SPECIFICATIONS

Thermal conductivity, Btu • in/h • ft <sup>2</sup> • °F [W/(m•K)] 75°F (24°C) mean temp	0.25 (0.036)	ASTM C 177 or C518
Water vapor transmission, perm-in [g/(s•m•Pa)]	0.005 (7.25x10 <sup>-12</sup> ) (max)	ASTM E 96 (Dry Cup)
Flame and smoke ratings up to and including 1" thicknesses (25mm)	25/50	ASTM E 84
Nominal density, lbs/cu.ft (Kg/cu.m)	1-1/2 (24)	ASTM D 1622
Ozone Resistance	GOOD	ASTM D 1171
Upper use limit, °F (°C)	200 (93)	
Lower use limit, °F (°C)	-200 (-129)	
<b>Sizes</b>		
Wall thickness (nominal)	3/8", 1/2", 3/4" and 1" - (10, 13, 19 and 25mm)	
Inside diameter, tubular form	3/8" to 4-1/2" ID - (10mm ID to 114mm ID)	
Length of sections, tubular form	6' (1.83m)	

Nominal ID	R Value 3/8" Wall	R Value 1/2" Wall	R Value 3/4" Wall	R Value 1" Wall
3/8	2.73	3.85	6.35	9.11
1/2	2.62	3.66	5.95	8.49
5/8	2.57	3.54	5.70	8.07
3/4	2.67	3.60	5.66	7.93
7/8	2.28	3.15	5.07	7.20
1	2.36	3.21	5.07	7.13
1 1/8	2.17	2.98	4.76	6.72
1 1/4	2.33	3.13	4.88	6.80
1 3/8	2.11	2.88	4.56	6.41
1 5/8	2.22	2.97	4.59	6.36
2	1.84	2.53	4.03	5.66
2 1/8	2.02	2.71	4.20	5.83
2 3/8	2.03	2.71	4.16	5.74
2 5/8	2.05	2.71	4.13	5.68
2 7/8	2.07	2.72	4.12	5.62
3 1/8	2.09	2.73	4.10	5.58
3 1/2	2.10	2.73	4.08	5.52
3 5/8	2.11	2.74	4.08	5.51
4 1/8	2.17	2.78	4.09	5.48
4 1/2	2.21	2.82	4.11	5.47