

PermaTherm 427 Pipe Insulation for Ammonia Refrigeration Outdoor Application

Ambient Temperature 100° Fahrenheit	Ambient Relative Humidity 90%	Dew Point 96° Fahrenheit	Wind Velocity 8 MPH
Pipe is in horizontal position		Table based on ASTM C 680-95	

NPS Pipe Size Inches	Service Temperature Fahrenheit							
	-110	-90	-70	-50	-20	0	20	40
0.5	3.5	3.5	3.5	3	2.5	2.5	2	1.5
0.75	4	4	3.5	3.5	3	2.5	2	2
1	4.5	4.5	4.5	4	4	3.5	2.5	2
1.25	4.5	4.5	4.5	4	4	3.5	2.5	2
1.5	4.5	4.5	4.5	4	4	3.5	2.5	2
2	5	4.5	4.5	4	4	3.5	2.5	2
2.5	5	5	4.5	4.5	4	3.5	2.5	2
3	5.5	5	5	4.5	4	3.5	3	2.5
4	6	5.5	5.5	5	4.5	3.5	3	2.5
5	6	6	5.5	5.5	5	4	3	2.5
6	6.5	6	6	5.5	5	4	3	2.5
8	7	6.5	6	5.5	5	4	3.5	3
10	7.5	7	6.5	6	5	4.5	3.5	3
12	7.5	7.5	7	6.5	5.5	4.5	4	3
14	8	8	7.5	7	6	5	4	3
16	8	8	7.5	7	6	5	4	3.5
18	8.5	8	7.5	7	6	5	4	3.5
20	8.5	8.5	8	7.5	6	5	4.5	3.5
22	9	9	8.5	8	6.5	5.5	5	4
24	9	9	9	8.5	7.5	6.5	5.5	4.5

The suggested thicknesses assume proper installation. Tables are to be used for guidelines only. Consult a design engineer familiar with this application for proper system design specifications.

Blue Indicates Double Layer