

PermaTherm 427 Pipe Insulation for Ammonia Refrigeration Harsh Indoor Conditions

Ambient Temperature 90° Fahrenheit	Ambient Relative Humidity 80%	Dew Point 83° Fahrenheit	Wind Velocity 0 MPH
Pipe is in horizontal position		Table based on ASTM C 680-95	

NPS Pipe Size Inches	Service Temperature Fahrenheit							
	-300	-200	-100	-40	-20	0	20	40
0.5	5.5	5.5	4	3	2.5	2.5	2	1.5
0.75	6	6	4	3.5	3	2.5	2.5	2
1	7	6	4.5	4	3	3	2.5	2
1.25	7	6	5	4	4	3.5	2.5	2
1.5	7	6.5	5	4	4	3.5	2.5	2
2	7.5	6.5	5.5	4	4	3.5	2.5	2
2.5	8	6.5	5.5	4.5	4	3.5	2.5	2
3	8	7.5	5.5	4.5	4	3.5	3	2.5
4	8.8	7.5	6	5	4.5	3.5	3	2.5
5	99.5	8	6.5	5.5	5	4	3	2.5
6	10	8.5	7	5.5	5	4	3.5	2.5
8	11	9	7	5.5	5	4	3.5	3
10	11	10	7.5	6	5	4.5	3.5	3
12	11	10	8	6.5	5.5	4.5	4	3
14	11.5	11	8	6.5	6	4.5	4	3
16	12	11	8	6.5	6	4.5	4	3.5
18	12	11	9	7	6	4.5	4	3.5
20	13	12	9	7	6	4.5	4	3.5
22	13	12	10	7.5	6.5	5.5	4.5	4
24	13	12	10	7.5	7.5	5.5	4.5	4

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