

### PIPE AND BLOCK INSULATION

#### SINGLE LAYER

#### SECTIONAL PIPE INSULATION

I.D. Pipe Size (in) (mm)	1" (25 mm) Thick				1½" (38 mm) Thick				2" (51 mm) Thick			
	Ln.Ft./ Carton	Load Factor	Cube/ Carton	Lbs./ Carton	Ln.Ft./ Carton	Load Factor	Cube/ Carton	Lbs./ Carton	Ln.Ft./ Carton	Load Factor	Cube/ Carton	Lbs./ Carton
½ 15	105	0.183	6.68	62	60	0.202	7.63	90	36	0.202	7.63	85
¾ 20	105	0.183	6.68	60	60	0.202	7.63	88	36	0.202	7.63	84
1 25	84	0.183	6.68	84	51	0.247	7.98	91	30	0.247	7.98	85
1¼ 32	96	0.202	7.60	76	30	0.145	5.49	65	30	0.247	7.98	83
1½ 40	75	0.231	7.24	73	33	0.145	5.49	69	24	0.247	7.98	93
2 50	51	0.161	7.98	74	30	0.145	5.49	73	24	0.247	7.98	89
2½ 65	48	0.183	6.68	79	21	0.180	6.08	72	15	0.161	6.08	72
3 80	36	0.183	8.45	66	24	0.180	6.08	73	15	0.161	6.08	66
3½ 90	27	0.231	7.24	66	21	0.202	7.63	86	12	0.160	5.78	68
4 100	30	0.202	8.45	69	24	0.202	7.63	88	12	0.160	5.78	63
4½ 115	27	0.264	8.87	78	12	0.160	5.78	58	12	0.183	6.59	78
5 125	27	0.222	8.45	65	18	0.231	7.14	76	12	0.183	6.59	71
6 150	27	0.266	9.51	79	12	0.183	6.59	57	12	0.247	7.98	83
7 175	-	-	-	-	12	0.232	7.69	66	9	0.214	7.14	69
8 200	-	-	-	-	12	0.265	9.19	73	6	0.180	6.08	51
9 225	-	-	-	-	9	0.264	8.8	61	6	0.214	7.14	60
10 250	-	-	-	-	6	0.214	7.14	47	6	0.202	7.63	63
11 275	-	-	-	-	6	0.202	7.63	51	6	0.222	8.45	68
12 300	-	-	-	-	6	0.222	8.45	54	6	0.278	9.31	65
14 350	-	-	-	-	6	0.278	9.31	57	3	0.161	6.08	38
15 375	-	-	-	-	3	0.161	6.08	30	3	0.183	6.59	41
16 400	-	-	-	-	3	0.183	6.59	32	3	0.231	7.14	43
17 425	-	-	-	-	3	0.231	7.10	34	3	0.232	7.69	46
18 450	-	-	-	-	3	0.232	7.69	36	3	0.247	7.98	48
19 475	-	-	-	-	3	0.232	7.69	38	3	0.264	8.87	50
20 500	-	-	-	-	Quad	*	*	*	3	0.265	9.10	52
21 525	-	-	-	-	Quad	*	*	*	3	0.266	9.51	54
22 550	-	-	-	-	Quad	*	*	*	3	0.285	10.48	56
23 575	-	-	-	-	Quad	*	*	*	1.5	0.264	8.87	30
24 600	-	-	-	-	Quad	*	*	*	1.5	0.265	9.19	32

**\*Refer to page 5 for Quad Pipe Insulation packaging and shipping data.**

Notes: • Load Factors are based on the following:

- 100% : 53' High Cube Trailer
- 70% : 45' High Cube Container
- 65% : 40' High Cube Container
- 58% : 40' Standard Container

• Cube/ Carton is determined by using the outside volume of the carton, not the actual volume of the insulation material in the carton.

### PIPE AND BLOCK INSULATION

#### SINGLE LAYER (CON'D)

#### SECTIONAL PIPE INSULATION

I.D. Pipe Size (in) (mm)	2½" (64 mm) Thick				3" (76 mm) Thick			
	Ln.Ft./ Carton	Load Factor	Cube/ Carton	Lbs./ Carton	Ln.Ft./ Carton	Load Factor	Cube/ Carton	Lbs./ Carton
½ 15	18	0.145	5.49	61	15	0.202	7.63	82
¾ 20	18	0.145	5.49	61	15	0.202	7.63	80
1 25	18	0.145	5.49	60	15	0.202	7.63	82
1¼ 32	24	0.247	7.98	95	15	0.202	7.63	80
1½ 40	12	0.180	6.08	63	12	0.202	7.63	82
2 50	12	0.180	6.08	61	12	0.202	7.63	79
2½ 65	9	0.145	5.49	57	12	0.278	9.31	97
3 80	12	0.161	6.08	71	9	0.160	5.78	70
3½ 90	12	0.232	7.69	88	9	0.232	7.69	86
4 100	9	0.145	5.49	63	9	0.232	7.69	83
4½ 115	9	0.232	7.69	78	6	0.180	6.08	65
5 125	9	0.231	7.14	73	6	0.180	6.08	61
6 150	9	0.232	7.69	81	6	0.180	6.08	68
7 175	6	0.180	6.08	60	6	0.202	7.63	79
8 200	6	0.202	7.63	71	6	0.222	8.45	86
9 225	6	0.222	8.45	75	6	0.278	9.31	93
10 250	6	0.278	9.31	81	3	0.160	5.78	51
11 275	3	0.160	5.78	42	3	0.161	6.08	53
12 300	3	0.161	6.08	47	3	0.183	6.59	58
14 350	3	0.183	6.59	49	3	0.231	7.14	60
15 375	3	0.231	7.14	51	3	0.232	7.69	63
16 400	3	0.232	7.69	55	3	0.264	8.87	66
17 425	3	0.264	8.87	58	3	0.265	9.19	69
18 450	3	0.265	9.19	60	3	0.266	9.51	73
19 475	3	0.265	9.19	62	3	0.285	10.48	78
20 500	3	0.285	10.50	64	1.5	0.247	7.98	37
21 525	1.5	0.247	7.98	30	1.5	0.202	7.63	37
22 550	1.5	0.264	9.31	32	1.5	0.265	9.31	39
23 575	1.5	0.265	9.31	33	1.5	0.266	9.31	41
24 600	1.5	0.266	9.31	34	1.5	0.278	9.31	42

**\*Refer to page 5 for Quad Pipe Insulation packaging and shipping data.**

Notes: • Load Factors are based on the following:

100% : 53' High Cube Trailer

70% : 45' High Cube Container

65% : 40' High Cube Container

58% : 40' Standard Container

• Cube/ Carton is determined by using the outside volume of the carton, not the actual volume of the insulation material in the carton.

### PIPE AND BLOCK INSULATION

#### FACTORY NESTED/DOUBLE LAYER

I.D. Pipe Size (in) (mm)	3" (76 mm) Thick				3½" (89 mm) Thick				4" (102 mm) Thick				4½" (114 mm) Thick			
	Ln.Ft./ Carton	Load Factor	Cube/ Carton	Lbs./ Carton	Ln.Ft./ Carton	Load Factor	Cube/ Carton	Lbs./ Carton	Ln.Ft./ Carton	Load Factor	Cube/ Carton	Lbs./ Carton	Ln.Ft./ Carton	Load Factor	Cube/ Carton	Lbs./ Carton
½ 15	15	0.202	7.63	84	12	0.202	7.63	86	9	0.214	7.10	80	6*	0.160*	5.78*	66*
¾ 20	15	0.202	7.63	83	12	0.202	7.63	85	9	0.214	7.10	80	6*	0.160*	5.78*	66*
1 25	15	0.202	7.63	82	12	0.202	7.63	84	9	0.214	7.10	79	6	0.160	5.78	65
1¼ 32	15	0.202	7.63	80	12	0.202	7.73	83	9	0.214	7.10	78	6	0.160	5.78	65
1½ 40	12	0.202	7.63	82	9	0.144	5.22	77	9	0.214	7.10	88	6	0.183	6.59	77
2 50	12	0.202	7.63	79	9	0.161	6.08	76	6	0.144	5.22	57	6	0.183	6.59	76
2½ 65	12	0.278	9.31	97	6	0.144	5.22	62	6	0.161	6.17	75	6	0.232	7.69	89
3 80	9	0.160	5.65	70	6	0.144	5.22	62	6	0.161	6.17	72	6	0.232	7.69	86
3½ 90	9	0.232	7.69	86	6	0.161	6.08	70	6	0.214	7.19	84	3	0.180	6.10	52
4 100	9	0.232	7.69	82	6	0.161	6.08	68	6	0.214	7.10	82	3	0.180	5.49	51
4½ 115	6	0.232	6.10	65	6	0.214	7.10	9	3	0.144	5.22	50	3	0.145	5.22	51
5 125	6	0.180	6.10	61	6	0.214	7.10	76	3	0.144	5.22	48	3	0.144	6.08	56
6 150	6	0.180	6.10	68	6	0.202	7.73	87	3	0.144	5.22	52	3	0.161	6.08	61
7 175	6	0.180	7.63	72	6	0.222	8.45	87	3	0.145	5.49	53	3	0.183	6.59	67
8 200	6	0.202	8.45	85	3	0.144	5.22	52	3	0.161	6.08	62	3	0.231	7.14	72
9 225	6	0.278	9.31	93	3	0.160	5.78	57	3	0.161	6.17	67	3	0.232	7.69	78
10 250	3	0.160	5.78	51	3	0.161	6.08	60	3	0.183	6.59	70	3	0.232	7.69	82
11 275	3	0.161	6.08	53	3	0.183	6.88	65	3	0.231	7.24	75	3	0.264	8.87	87
12 300	3	0.183	6.59	58	3	0.231	7.14	68	3	0.247	7.98	81	3	0.265	9.19	93
14 350	3	0.231	7.14	60	3	0.232	7.79	72	3	0.265	9.19	84	1.5	0.183	6.59	49
15 375	3	0.232	7.69	63	3	0.264	8.87	75	3	0.265	9.19	80	1.5	0.231	7.14	51
16 400	-	-	-	-	3	0.265	8.35	80	3	0.266	9.64	92	1.5	0.232	7.69	56
17 425	-	-	-	-	3	0.266	9.51	83	3	0.285	10.48	95	1.5	0.247	7.98	57
18 450	-	-	-	-	3	0.285	10.48	85	3	0.247	7.98	52	1.5	0.264	8.87	59
19 475	-	-	-	-	1.5*	0.247*	7.98*	47*	1.5	0.264	8.87	54	1.5	0.265	9.19	62
20 500	-	-	-	-	-	-	-	-	1.5	0.265	9.19	56	1.5	0.266	9.51	64

#### CALCIUM SILICATE BLOCK INSULATION

Block Width and Style (in.) (mm)	1" (25 mm) Thick				1½" (38 mm) Thick				2" (51 mm) Thick				2½" (64 mm) Thick			
	Sq.Ft./ Carton	Load Factor	Cube/ Carton	Lbs./ Carton	Sq.Ft./ Carton	Load Factor	Cube/ Carton	Lbs./ Carton	Sq.Ft./ Carton	Load Factor	Cube/ Carton	Lbs./ Carton	Sq.Ft./ Carton	Load Factor	Cube/ Carton	Lbs./ Carton
Flat																
6" (152)	54	0.144	5.22	77	36	0.144	5.22	77	27	0.144	5.22	77	21	0.144	5.22	75
12" (305)	54	0.144	5.22	77	36	0.144	5.22	77	27	0.144	5.22	77	21	0.144	5.22	75
18" (457)	—	—	—	—	36	0.144	5.22	77	27	0.144	5.22	77	22.5	0.144	5.22	75
3-V																
12" (305)	—	—	—	—	36	0.144	5.22	77	27	0.144	5.22	77	21	0.144	5.22	75
18" (457)	—	—	—	—	36	0.144	5.22	77	27	0.144	5.22	77	22.5	0.144	5.22	75

### PIPE AND BLOCK INSULATION

#### FACTORY NESTED/DOUBLE LAYER (CON'D)

I.D. Pipe Size (in) (mm)	5" (127 mm) Thick				5½" (140 mm) Thick				6" (152 mm) Thick			
	Ln.Ft./ Carton	Load Factor	Cube/ Carton	Lbs./ Carton	Ln.Ft./ Carton	Load Factor	Cube/ Carton	Lbs./ Carton	Ln.Ft./ Carton	Load Factor	Cube/ Carton	Lbs./ Carton
½ 15	6*	0.183*	6.59*	79*	6*	0.232*	7.69*	93*	6*	0.231*	7.14*	93*
¾ 20	6*	0.183*	6.59*	80*	6*	0.232*	7.69*	93*	3*	0.180*	6.10*	52*
1 25	6	0.183	6.59	78	6	0.232	7.69	92	3	0.180	6.10	56
1¼ 32	6	0.232	7.69	90	6	0.232	7.69	92	3	0.180	6.10	56
1½ 40	6	0.232	7.69	91	3	0.180	6.10	56	3	0.180	6.10	63
2 50	6	0.232	7.69	90	3	0.180	6.10	55	3	0.180	6.10	63
2½ 65	3	0.180	6.10	45	3	0.180	6.10	54	3	0.180	6.10	62
3 80	3	0.180	6.10	53	3	0.180	6.10	61	3	0.180	6.10	69
3½ 90	3	0.180	6.10	60	3	0.180	6.10	69	3	0.202	7.63	79
4 100	3	0.180	6.10	59	3	0.180	6.10	67	3	0.202	7.63	78
4½ 115	3	0.180	6.10	57	3	0.202	7.63	71	3	0.202	7.63	77
5 125	3	0.180	6.10	64	3	0.202	7.63	75	3	0.202	7.63	85
6 150	3	0.202	7.63	72	3	0.202	7.63	81	3	0.222	8.45	91
7 175	3	0.232	7.69	77	3	0.202	7.63	87	1.5	0.160	5.78	50
8 200	3	0.232	7.69	83	1.5	0.160	5.78	47	1.5	0.160	5.76	54
9 225	3	0.247	7.98	89	1.5	0.160	5.78	51	1.5	0.161	6.08	56
10 250	1.5	0.160	5.78	48	1.5	0.161	6.08	53	1.5	0.183	6.59	60
11 275	1.5	0.161	6.08	50	1.5	0.161	6.08	57	1.5	0.231	7.14	63
12 300	1.5	0.183	6.59	54	1.5	0.231	7.14	60	1.5	0.232	7.69	68
14 350	1.5	0.231	7.14	56	1.5	0.232	7.69	64	1.5	0.247	9.31	70
15 375	1.5	0.232	7.69	60	1.5	0.232	7.69	65	1.5	0.264	8.87	73
16 400	1.5	0.247	7.98	61	1.5	0.264	8.87	69	1.5	0.265	9.19	76
17 425	1.5	0.264	8.87	64	1.5	0.266	9.51	72	1.5	0.285	10.48	79
18 450	1.5	0.265	9.19	67	1.5	0.266	9.51	75	1.5	0.285	10.48	83
19 475	1.5	0.266	9.51	71	1.5	0.285	10.48	79	-	-	-	-
20 500	1.5	0.285	10.48	73	-	-	-	-	-	-	-	-

\*Triple layer/nested.

#### CALCIUM SILICATE BLOCK INSULATION (CON'D)

Block Width and Style (in.) (mm)	3" (76 mm) Thick				3½" (89 mm) Thick				4" (102 mm) Thick			
	Sq.Ft./ Carton	Load Factor	Cube/ Carton	Lbs./ Carton	Sq.Ft./ Carton	Load Factor	Cube/ Carton	Lbs./ Carton	Sq.Ft./ Carton	Load Factor	Cube/ Carton	Lbs./ Carton
Flat												
6" (152)	18	0.144	5.22	77	15	0.144	5.22	75	12	0.144	5.22	70
12" (305)	18	0.144	5.22	77	15	0.144	5.22	75	12	0.144	5.22	70
18" (457)	18	0.144	5.22	77	18	0.144	5.22	84	13.5	0.144	5.22	75
3-V												
12" (305)	18	0.144	5.22	77	15	0.144	5.22	75	12	0.144	5.22	70
18" (457)	18	0.144	5.22	77	18	0.144	5.22	84	13.5	0.144	5.22	75

### PIPE AND BLOCK INSULATION

#### QUAD PIPE INSULATION\*\*

I.D. Pipe Size (in) (mm)	1½" (38 mm) Thick				2" (51 mm) Thick				2½" (64 mm) Thick				3" (76 mm) Thick			
	Ln.Ft./ Carton	Load Factor	Cube/ Carton	Lbs./ Carton	Ln.Ft./ Carton	Load Factor	Cube/ Carton	Lbs./ Carton	Ln.Ft./ Carton	Load Factor	Cube/ Carton	Lbs./ Carton	Ln.Ft./ Carton	Load Factor	Cube/ Carton	Lbs./ Carton
20 500	3	0.144	5.22	38	3	0.144	5.22	51	3	0.214	7.10	68	3	0.202	7.63	79
21 525	3	0.144	5.22	40	3	0.145	5.49	55	3	0.202	7.63	68	3	0.202	7.63	82
22 550	3	0.144	5.22	41	3	0.145	5.49	57	3	0.214	7.10	71	3	0.278	9.31	86
23 575	3	0.144	5.22	43	3	0.214	7.10	56	3	0.278	9.31	78	3	0.278	9.31	89
24 600	6	0.278	9.31	88	3	0.214	7.10	60	3	0.278	9.31	77	3	0.278	9.31	92
25 625	3	0.161	6.08	48	3	0.214	7.10	63	1.5	0.160	5.78	40	1.5	0.161	6.08	49
26 650	3	0.161	6.08	48	3	0.232	7.69	65	1.5	0.160	5.78	42	1.5	0.161	6.08	52
27 675	3	0.161	6.08	48	3	0.264	8.87	68	1.5	0.161	6.08	43	1.5	0.161	6.08	52
28 700	3	0.183	6.59	52	3	0.264	8.87	69	1.5	0.183	6.59	45	1.5	0.183	6.59	55
29 725	3	0.183	6.59	53	3	0.264	8.87	71	1.5	0.231	7.14	46	1.5	0.231	7.14	55
30 750	3	0.183	6.59	55	3	0.264	8.87	73	1.5	0.231	7.14	48	1.5	0.231	7.14	58
31 775	3	0.183	6.59	56	3	0.264	8.87	76	1.5	0.231	7.14	49	1.5	0.232	7.69	59
32 800	3	0.231	7.14	59	3	0.265	9.19	79	1.5	0.232	7.69	51	1.5	0.247	7.98	61
33 825	3	0.232	7.69	60	3	0.265	9.19	79	1.5	0.247	7.98	52	1.5	0.264	8.87	63
34 850	3	0.232	7.69	60	3	0.265	9.19	82	1.5	0.265	9.19	54	1.5	0.265	9.19	64
35 875	3	0.264	8.87	63	3	0.266	9.51	84	1.5	0.266	9.51	55	1.5	0.265	9.19	66
36 900	3	0.264	8.87	65	3	0.285	10.48	86	1.5	0.266	9.51	57	1.5	0.266	9.51	69
37 925	3	0.265	9.19	67	3	0.285	10.48	89	1.5	0.285	10.48	59	1.5	0.266	9.51	69

\*\*Available from Mesa, CO and Ruston, LA plants.

#### HEX PIPE INSULATION\*

I.D. Pipe Size (in) (mm)	1½" (38 mm) Thick				2" (51 mm) Thick				2½" (64 mm) Thick				3" (76 mm) Thick			
	Ln.Ft./ Carton	Load Factor	Cube/ Carton	Lbs./ Carton	Ln.Ft./ Carton	Load Factor	Cube/ Carton	Lbs./ Carton	Ln.Ft./ Carton	Load Factor	Cube/ Carton	Lbs./ Carton	Ln.Ft./ Carton	Load Factor	Cube/ Carton	Lbs./ Carton
38 950	3	0.232	7.69	69	2	0.161	6.08	62	1.5	0.160	5.56	60	1.5	0.183	6.59	71
39 975	3	0.232	7.69	71	2	0.161	6.08	65	1.5	0.160	5.56	61	1.5	0.232	7.69	73
40 1000	3	0.232	7.69	73	2	0.161	6.08	66	1.5	0.161	6.08	63	1.5	0.232	7.69	75
41 1025	3	0.232	7.69	74	2	0.161	6.08	67	1.5	0.183	6.59	64	1.5	0.232	7.69	77
42 1050	3	0.232	7.69	76	2	0.183	6.59	69	1.5	0.183	6.59	65	1.5	0.232	7.69	78
43 1075	3	0.232	7.69	77	2	0.183	6.59	70	1.5	0.183	6.59	67	1.5	0.232	7.69	80
44 1100	3	0.232	7.69	79	2	0.231	7.14	72	1.5	0.231	7.14	68	1.5	0.232	7.69	81
45 1125	3	0.232	7.69	81	2	0.231	7.14	72	1.5	0.231	7.14	69	1.5	0.232	7.69	83
46 1150	3	0.264	8.87	82	2	0.231	7.14	74	1.5	0.231	7.14	71	1.5	0.264	8.87	85
47 1175	3	0.264	8.87	84	2	0.231	7.14	76	1.5	0.231	7.14	72	1.5	0.264	8.87	86
48 1200	3	0.264	8.87	85	2	0.231	7.14	77	1.5	0.247	7.98	73	1.5	0.264	8.87	88
49 1225	3	0.264	8.87	87	2	0.232	7.69	79	1.5	0.264	8.87	75	1.5	0.265	9.19	89
50 1250	3	0.264	8.87	89	2	0.264	8.87	80	1.5	0.264	8.87	76	1.5	0.265	9.19	91
51 1275	3	0.264	8.87	90	2	0.264	8.87	82	1.5	0.265	9.19	77	1.5	0.265	9.19	93
52 1300	3	0.264	8.87	92	2	0.264	8.87	83	1.5	0.265	9.19	79	1.5	0.266	9.51	95

\*Available from the Ruston, LA plant only.

PIPE AND BLOCK INSULATION

Industrial Insulation Group, LLC manufactures MinWool-1200<sup>®</sup> mineral fiber pipe, block and a variety of other insulations; Thermo-12<sup>®</sup> Gold Calcium Silicate pipe and block insulation; Microporous Blanket insulation; Super Firetemp<sup>®</sup> fireproofing board; SprouleWR-1200<sup>®</sup> Perlite pipe and block insulation; high-temperature adhesives, and insulating finishing cement. The physical and chemical properties presented herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Numerical flame spread and smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. Check with the Customer Service Office to assure current information. All Industrial Insulation Group products are sold subject to the Johns Manville Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville Limited Warranty and Limitation of Remedy, email [info.industrial@jm.com](mailto:info.industrial@jm.com).

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