



## Thermo-12<sup>®</sup> Gold PIPE AND BLOCK INSULATION

### SECTIONAL PIPE INSULATION SINGLE LAYER

IIG-CS-4

Effective: 06.2009

Cancels: 04.2009

I.D. Pipe Size in mm	1" (25mm) Thick				1½" (38 mm) Thick				2" (51 mm) Thick			
	Ln.Ft./ Carton	L o a d Factor	Cube/ Carton	Pounds/ Carton	Ln.Ft./ Carton	L o a d Factor	Cube/ Carton	Pounds/ Carton	Ln.Ft./ Carton	L o a d Factor	Cube/ Carton	Pounds/ 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	0.202	63
11 275	-	-	-	-	6	0.202	7.63	51	6	0.222	0.222	68
12 300	-	-	-	-	6	0.222	8.45	54	6	0.278	0.278	65
14 350	-	-	-	-	6	0.278	9.31	57	3	0.161	0.161	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.

# Thermo-12® Gold

## PIPE AND BLOCK INSULATION

IIG-CS-4:2  
 Effective: 06.2009  
 Cancels: 04.2009

### SECTIONAL PIPE INSULATION SINGLE LAYER (CONT'D)

I.D. Pipe Size in mm		2½" (64 mm) Thick				3" (76 mm) Thick			
		Ln.Ft./ Carton	L o a d Factor	Cube/ Carton	Pounds/ Carton	Ln.Ft./ Carton	L o a d Factor	Cube/ Carton	Pounds/ 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	.63	37
21	525	1.5	0.247	7.63	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

# Thermo-12<sup>®</sup> Gold

## PIPE AND BLOCK INSULATION

IIG-CS-4:3  
Effective: 06.2009  
Cancels: 04.2009

### FACTORY NESTED/DOUBLE LAYER

I.D. Pipe Size in mm	3" (76mm) Thick				3½" (89 mm) Thick				4" (102 mm) Thick				4½" (114 mm) Thick			
	Ln.Ft./Carton	Loa d Factor	Cube/ Carton	Pounds/ Carton	Ln.Ft./ Carton	Loa d Factor	Cube/ Carton	Pounds/ Carton	Ln.Ft./ Carton	Loa d Factor	Cube/ Carton	Pounds/ Carton	Ln.Ft./ Carton	Loa d Factor	Cube/ Carton	Pounds/ 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	9	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 <sup>~</sup>	0.247 <sup>~</sup>	7.98 <sup>~</sup>	47 <sup>~</sup>	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

\* Triple layer/nested.

<sup>~</sup> Outer layers furnished in quad segments; inner layers are half sections.

### CALCIUM SILICATE BLOCK INSULATION

Block Width and Style	1" (25mm) Thick				1½" (38 mm) Thick				2" (51 mm) Thick				2½" (64mm) Thick			
	SF/ Carton	Loa d Factor	Cube/ Carton	Pounds/ Carton	SF/ Carton	Loa d Factor	Cube/ Carton	Pounds/ Carton	SF/ Carton	Loa d Factor	Cube/ Carton	Pounds/ Carton	SF/ Carton	Loa d Factor	Cube/ Carton	Pounds/ Carton
<b>Flat</b>																
6" (152 mm)	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 mm)	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 mm)	-	-	-	-	36	0.144	5.22	77	27	0.144	5.22	77	22.5	0.144	5.22	75
<b>3-V</b>																
12" (305 mm)	-	-	-	-	36	0.144	5.22	77	27	0.144	5.22	77	21	0.144	5.22	75
18" (457 mm)	-	-	-	-	36	0.144	5.22	77	27	0.144	5.22	77	22.5	0.144	5.22	75

**FACTORY NESTED/DOUBLE LAYER (CONT'D)**

I.D. Pipe Size in mm	5" (127mm) Thick				5½" (140 mm) Thick				6" (152 mm) Thick			
	Ln.Ft./ Carton	L o a d Factor	Cube/ Carton	Pounds/ Carton	Ln.Ft./ Carton	L o a d Factor	Cube/ Carton	Pounds/ Carton	Ln.Ft./ Carton	L o a d Factor	Cube/ Carton	Pounds/ 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	15	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 (CONT'D)**

Block Width and Style	3" (76 mm) Thick				3½" (89 mm) Thick				4" (102 mm) Thick			
	SF/ Carton	L o a d Factor	Cube/ Carton	Pounds/ Carton	SF/ Carton	L o a d Factor	Cube/ Carton	Pounds/ Carton	SF/ Carton	L o a d Factor	Cube/ Carton	Pounds/ Carton
<b>Flat</b>												
6" (152 mm)	18	0.144	5.22	77	15	0.144	5.22	75	12	0.144	5.22	70
12" (305 mm)	18	0.144	5.22	77	15	0.144	5.22	75	12	0.144	5.22	70
18" (457 mm)	18	0.144	5.22	77	18	0.144	5.22	84	13.5	0.144	5.22	75
<b>3-V</b>												
12" (305 mm)	18	0.144	5.22	77	15	0.144	5.22	75	12	0.144	5.22	70
18" (457 mm)	18	0.144	5.22	77	18	0.144	5.22	84	13.5	0.144	5.22	75

# Thermo-12® Gold

## PIPE AND BLOCK INSULATION

IIG-CS-4:5  
Effective: 06.2009  
Cancels: 04.2009

### 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	Pounds/ Carton	Ln. Ft./ Carton	Load Factor	Cube/ Carton	Pounds/ Carton	Ln. Ft./ Carton	Load Factor	Cube/ Carton	Pounds/ Carton	Ln. Ft./ Carton	Load Factor	Cube/ Carton	Pounds/ 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	Pounds/ Carton	Ln. Ft./ Carton	Load Factor	Cube/ Carton	Pounds/ Carton	Ln. Ft./ Carton	Load Factor	Cube/ Carton	Pounds/ Carton	Ln. Ft./ Carton	Load Factor	Cube/ Carton	Pounds/ 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.



Industrial Insulation Group, LLC is a Calsilite/Johns Manville joint venture. IIG manufactures MinWool-1200® mineral fiber pipe, block and a variety of other insulations; Thermo-12® Gold Calcium Silicate pipe and block insulation; Super Firetemp® fireproofing board; SprouleWR-1200® 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 IIG Limited Warranty and Limitation of Remedy. For a copy of the IIG Limited Warranty and Limitation of Remedy, email - [info@iig-llc.com](mailto:info@iig-llc.com).



**Industrial Insulation Group, LLC**

*A Calsilite/Johns Manville Joint Venture*

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