

O.D.	Wall Thickness	I.D.	WEIGHT	AREA	PROPERTIES			SURFACE AREA
					I	S	Z	
Inches	in.	in.	lbs./ft.	in. <sup>2</sup>	in. <sup>4</sup>	in. <sup>3</sup>	in. <sup>3</sup>	ft. <sup>2</sup> /ft.
6.625	0.187	6.251	12.870	3.78	19.61	5.92	7.75	1.73
6.625	0.250	6.125	17.037	5.01	25.47	7.69	10.17	1.73
6.625	0.280	6.065	18.992	5.58	28.14	8.50	11.28	1.73
6.625	0.312	6.001	21.056	6.19	30.90	9.33	12.44	1.73
6.625	0.375	5.875	25.055	7.36	36.08	10.89	14.67	1.73
6.625	0.432	5.761	28.600	8.40	40.49	12.22	16.60	1.73
6.625	0.500	5.625	32.738	9.62	45.42	13.71	18.80	1.73
6.625	0.562	5.501	36.425	10.70	49.61	14.98	20.72	1.73
6.625	0.625	5.375	40.088	11.78	53.59	16.18	22.58	1.73
8.625	0.187	8.251	16.868	4.96	44.14	10.24	13.32	2.26
8.625	0.250	8.125	22.382	6.58	57.72	13.38	17.54	2.26
8.625	0.312	8.001	27.726	8.15	70.49	16.34	21.57	2.26
8.625	0.322	7.981	28.580	8.40	72.49	16.81	22.21	2.26
8.625	0.375	7.875	33.072	9.72	82.86	19.21	25.54	2.26
8.625	0.406	7.813	35.672	10.48	88.74	20.58	27.45	2.26
8.625	0.500	7.625	43.428	12.76	105.72	24.51	33.05	2.26
8.625	0.593	7.439	50.916	14.96	121.32	28.13	38.33	2.26
8.625	0.625	7.375	53.450	15.71	126.43	29.32	40.08	2.26
8.625	0.718	7.189	60.690	17.84	140.54	32.59	45.01	2.26
8.625	0.750	7.125	63.138	18.56	145.14	33.66	46.65	2.26
10.75	0.187	10.376	21.116	6.21	86.58	16.11	20.87	2.81
10.75	0.250	10.250	28.061	8.25	113.71	21.16	27.57	2.81
10.75	0.312	10.126	34.814	10.23	139.46	25.95	34.00	2.81
10.75	0.365	10.020	40.521	11.91	160.73	29.90	39.38	2.81
10.75	0.375	10.000	41.591	12.22	164.67	30.64	40.38	2.81
10.75	0.500	9.750	54.786	16.10	211.95	39.43	52.57	2.81
10.75	0.593	9.564	64.387	18.92	244.84	45.55	61.25	2.81
10.75	0.625	9.500	67.648	19.88	255.73	47.58	64.15	2.81
10.75	0.718	9.314	77.000	22.63	286.13	53.23	72.38	2.81
10.75	0.750	9.250	80.175	23.56	296.18	55.10	75.14	2.81

O.D. Inches	Wall Thickness in.	I.D. in.	WEIGHT lbs./ ft.	AREA in. <sup>2</sup>	PROPERTIES			SURFACE AREA ft. <sup>2</sup> /ft.
					I in. <sup>4</sup>	S in. <sup>3</sup>	Z in. <sup>3</sup>	
12.75	0.219	12.312	29.336	8.62	169.28	26.55	34.39	3.34
12.75	0.250	12.250	33.406	9.82	191.82	30.09	39.07	3.34
12.75	0.312	12.126	41.484	12.19	235.91	37.00	48.28	3.34
12.75	0.375	12.000	49.608	14.58	279.34	43.82	57.45	3.34
12.75	0.406	11.938	53.575	15.74	300.21	47.09	61.89	3.34
12.75	0.500	11.750	65.476	19.24	361.54	56.71	75.07	3.34
12.75	0.562	11.626	73.223	21.52	400.42	62.81	83.54	3.34
12.75	0.625	11.500	81.010	23.81	438.67	68.81	91.97	3.34
12.75	0.687	11.376	88.591	26.04	475.10	74.53	100.08	3.34
12.75	0.750	11.250	96.210	28.27	510.93	80.15	108.14	3.34
14	0.219	13.562	32.263	9.48	225.14	32.16	41.60	3.67
14	0.250	13.500	36.747	10.80	255.30	36.47	47.27	3.67
14	0.312	13.376	45.653	13.42	314.38	44.91	58.47	3.67
14	0.375	13.250	54.619	16.05	372.76	53.25	69.63	3.67
14	0.437	13.126	63.360	18.62	428.61	61.23	80.42	3.67
14	0.500	13.000	72.158	21.21	483.76	69.11	91.17	3.67
14	0.593	12.814	84.989	24.98	562.29	80.33	106.66	3.67
14	0.625	12.750	89.362	26.26	588.53	84.08	111.89	3.67
14	0.750	12.500	106.232	31.22	687.32	98.19	131.81	3.67
16	0.219	15.562	36.945	10.86	338.06	42.26	54.54	4.19
16	0.250	15.500	42.092	12.37	383.66	47.96	62.02	4.19
16	0.312	15.376	52.324	15.38	473.25	59.16	76.80	4.19
16	0.375	15.250	62.637	18.41	562.08	70.26	91.57	4.19
16	0.500	15.000	82.848	24.35	731.94	91.49	120.17	4.19
16	0.625	14.750	102.724	30.19	893.52	111.69	147.83	4.19
16	0.656	14.688	107.602	31.62	932.34	116.54	154.54	4.19
16	0.750	14.500	122.267	35.93	1,047.08	130.88	174.56	4.19

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					I	S	Z	
Inches	in.	in.	lbs./ ft.	in. <sup>2</sup>	in. <sup>4</sup>	in. <sup>3</sup>	in. <sup>3</sup>	ft. <sup>2</sup> /ft.
18	0.250	17.500	47.437	13.94	549.14	61.02	78.77	4.71
18	0.312	17.376	58.994	17.34	678.24	75.36	97.62	4.71
18	0.375	17.250	70.654	20.76	806.63	89.63	116.51	4.71
18	0.437	17.126	82.046	24.11	930.26	103.36	134.82	4.71
18	0.500	17.000	93.538	27.49	1,053.17	117.02	153.17	4.71
18	0.562	16.876	104.764	30.79	1,171.49	130.17	170.95	4.71
18	0.625	16.750	116.087	34.12	1,289.07	143.23	188.76	4.71
18	0.750	16.500	138.302	40.64	1,514.64	168.29	223.31	4.71



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