

Weights and Areas for Copper Alloys
Weights and Sizes of Coils - Weight per Inch of Width
(Multiply weight per inch of width x coil width to determine coil weight)

Outside Diameter, Inches	Inside Diameter, Inches										
	1 5/16 Fiber	3 Fiber Thinwall	3 Steel	3 Fiber Thickwall	6 Steel	6 Fiber Thickwall	6 Fiber Heavy Duty	12 Coreless	12 Fiber	16 Coreless	16 Fiber
2	0.29	---	---	---	---	---	---	---	---	---	---
3	1.53	---	---	---	---	---	---	---	---	---	---
4	3.27	1.35	1.04	---	---	---	---	---	---	---	---
5	5.52	3.59	3.28	2.24	---	---	---	---	---	---	---
6	8.25	6.33	6.02	4.98	---	---	---	---	---	---	---
7	11.49	9.57	9.26	8.22	2.08	---	---	---	---	---	---
8	15.23	13.30	12.99	11.95	5.82	3.73	1.93	---	---	---	---
9	19.46	17.54	17.22	16.18	10.05	7.97	6.16	---	---	---	---
10	24.19	22.27	21.96	20.91	14.78	12.70	10.89	---	---	---	---
11	29.42	27.50	27.18	26.14	20.01	17.93	16.12	---	---	---	---
12	35.14	33.22	32.91	31.87	25.73	23.65	21.85	---	---	---	---
13	41.37	39.45	39.13	38.09	31.96	29.88	28.07	6.22	---	---	---
14	48.09	46.17	45.86	44.81	38.68	36.60	34.79	12.95	6.72	---	---
15	55.31	53.39	53.08	52.03	45.90	43.82	42.01	20.17	13.94	---	---
16	63.03	61.11	60.79	59.75	53.62	51.54	49.73	27.88	21.66	---	---
17	71.24	69.32	69.01	67.97	61.83	59.75	57.95	36.10	29.88	8.22	---
18	79.96	78.04	77.72	76.68	70.55	68.47	66.66	44.81	38.59	16.93	8.71
19	89.17	87.25	86.94	85.90	79.76	77.68	75.87	54.03	47.80	26.14	17.93
20	98.88	96.96	96.65	95.60	89.47	87.39	85.58	63.74	57.51	35.85	27.64
21	109.09	107.17	106.85	105.81	99.68	97.60	95.79	73.94	67.72	46.06	37.84
22	119.79	117.87	117.56	116.52	110.38	108.30	106.50	84.65	78.43	56.77	48.55
23	131.00	129.08	128.76	127.72	121.59	119.51	117.70	95.85	89.63	67.97	59.75
24	142.70	140.78	140.47	139.42	133.29	131.21	129.40	107.56	101.33	79.67	71.45
25	154.90	152.98	152.67	151.62	145.49	143.41	141.60	119.76	113.53	91.87	83.65
26	167.60	165.67	165.36	164.32	158.19	156.10	154.30	132.45	126.23	104.57	96.35
27	180.79	178.87	178.56	177.52	171.38	169.30	167.50	145.65	139.42	117.76	109.55
28	194.48	192.56	192.25	191.21	185.08	182.99	181.19	159.34	153.12	131.46	123.24
29	208.68	206.76	206.44	205.40	199.27	197.19	195.38	173.53	167.31	145.65	137.43
30	223.37	221.44	221.13	220.09	213.96	211.87	210.07	188.22	182.00	160.34	152.12
31	238.55	236.63	236.32	235.28	229.14	227.06	225.26	203.41	197.19	175.52	167.31
32	254.24	252.32	252.00	250.96	244.83	242.75	240.94	219.09	212.87	191.21	182.99
33	270.42	268.50	268.19	267.15	261.01	258.93	257.13	235.28	229.05	207.39	199.18
34	287.10	285.18	284.87	283.83	277.69	275.61	273.81	251.96	245.73	224.07	215.86
35	304.28	302.36	302.05	301.01	294.87	292.79	290.99	269.14	262.91	241.25	233.04
36	321.96	320.04	319.72	318.68	312.55	310.47	308.66	286.81	280.59	258.93	250.71
37	340.13	338.21	337.90	336.86	330.72	328.64	326.84	304.99	298.77	277.10	268.89
38	358.81	356.88	356.57	355.53	349.40	347.31	345.51	323.66	317.44	295.78	287.56
39	377.98	376.06	375.74	374.70	368.57	366.49	364.68	342.83	336.61	314.95	306.73
40	397.64	395.72	395.41	394.37	388.24	386.15	384.35	362.50	356.28	334.62	326.40
41	417.81	415.89	415.58	414.54	408.40	406.32	404.52	382.67	376.44	354.78	346.57
42	438.48	436.56	436.24	435.20	429.07	426.99	425.18	403.33	397.11	375.45	367.23
43	459.64	457.72	457.41	456.36	450.23	448.15	446.34	424.50	418.27	396.61	388.40
44	481.30	479.38	479.07	478.02	471.89	469.81	468.00	446.16	439.93	418.27	410.06
45	503.46	501.54	501.22	500.18	494.05	491.97	490.16	468.31	462.09	440.43	432.21
46	526.11	524.19	523.88	522.84	516.70	514.62	512.82	490.97	484.75	463.09	454.87
47	549.27	547.35	547.04	545.99	539.86	537.78	535.97	514.13	507.90	486.24	478.02
48	572.92	571.00	570.69	569.65	563.51	561.43	559.63	537.78	531.55	509.89	501.68
49	597.07	595.15	594.84	593.80	587.66	585.58	583.78	561.93	555.70	534.04	525.83
50	621.72	619.80	619.49	618.44	612.31	610.23	608.42	586.58	580.35	558.69	550.48
51	646.87	644.94	644.63	643.59	637.46	635.37	633.57	611.72	605.50	583.84	575.62
52	672.51	670.59	670.28	669.23	663.10	661.02	659.21	637.37	631.14	609.48	601.27
53	698.65	696.73	696.42	695.38	689.24	687.16	685.36	663.51	657.28	635.62	627.41
54	725.29	723.37	723.06	722.02	715.88	713.80	712.00	690.15	683.92	662.26	654.05
55	752.43	750.51	750.20	749.15	743.02	740.94	739.13	717.29	711.06	689.40	681.19
56	780.06	778.14	777.83	776.79	770.66	768.57	766.77	744.92	738.70	717.04	708.82
57	808.20	806.28	805.97	804.92	798.79	796.71	794.90	773.06	766.83	745.17	736.95
58	836.83	834.91	834.60	833.56	827.42	825.34	823.53	801.69	795.46	773.80	765.59
59	865.96	864.04	863.73	862.69	856.55	854.47	852.66	830.82	824.59	802.93	794.72
60	895.59	893.67	893.35	892.31	886.18	884.10	882.29	860.44	854.22	832.56	824.34

To calculate coil weight:

Determine the "Weight per Inch of Width" from this table based upon the appropriate ID and OD

Multiply the "Weight per Inch of Width" times the coil width

For coil sizes not shown above, determine the weight per inch of width with the following formula:

$$\text{Weight per Inch of Width} = (\text{Radius of O.D.})^2 - (\text{Radius of I.D.})^2 \times 0.9959$$

Weight per Inch of Width shown are based upon using the average copper alloy density of 0.317 pounds per cubic inch