

"Kent's Mechanical Engineers' Handbook".tex

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1 Gauge Sizes from the Kent's Mechanical Engineers' Handbook

Gauge No	American Wire Gauge B & S	Steel Wire Gauge (Washburn & Moen)	Birmingham Wire Gauge (Stubs' Iron)	Old English Wire Gauge (London)	Stubs' Steel Wire Gauge	British Standard Wire Gauge	U.S. Std. Sheet Gauge	Gauge No
Kent's Mechanical Engineers' Handbook, Wire Tables, 1936								
0 000 000		0.4900				0.500	0.5000	0 000 000
000 000		0.4615				0.464	0.4687	000 000
00 000		0.4305				0.432	0.4375	00 000
0 000	0.460	0.3938	0.454	0.454		0.400	0.4062	0 000
000	0.410	0.3625	0.425	0.425		0.372	0.3750	000
00	0.365	0.3310	0.380	0.380		0.348	0.3437	00
0	0.325	0.3065	0.340	0.340		0.324	0.3125	0
1	0.289	0.2830	0.300	0.300	0.227	0.300	0.2812	1
2	0.258	0.2625	0.284	0.284	0.219	0.276	0.2625	2
3	0.229	0.2437	0.259	0.259	0.212	0.252	0.2500	3
4	0.204	0.2253	0.238	0.238	0.207	0.232	0.2344	4
5	0.182	0.2070	0.220	0.220	0.204	0.212	0.2187	5
6	0.162	0.1920	0.203	0.203	0.201	0.192	0.2035	6
7	0.144	0.1770	0.180	0.180	0.199	0.176	0.1875	7
8	0.128	0.1620	0.165	0.165	0.197	0.160	0.1719	8
9	0.114	0.1483	0.148	0.148	0.194	0.144	0.1562	9
10	0.102	0.1350	0.134	0.134	0.191	0.128	0.1406	10
11	0.091	0.1205	0.120	0.120	0.188	0.116	0.1250	11
12	0.081	0.1055	0.109	0.109	0.185	0.104	0.1094	12
13	0.072	0.0915	0.095	0.095	0.182	0.092	0.0937	13
14	0.064	0.0800	0.083	0.083	0.180	0.080	0.0781	14
15	0.057	0.0720	0.072	0.072	0.178	0.072	0.0703	15
16	0.051	0.0625	0.065	0.065	0.175	0.064	0.0625	16
17	0.045	0.0540	0.058	0.058	0.172	0.056	0.0562	17
18	0.040	0.0475	0.049	0.049	0.168	0.048	0.0500	18
19	0.036	0.0410	0.042	0.040	0.164	0.040	0.0437	19
20	0.032	0.0348	0.035	0.035	0.161	0.036	0.0375	20
21	0.0285	0.0317	0.032	0.0315	0.157	0.032	0.0344	21
22	0.0253	0.0286	0.028	0.0295	0.155	0.028	0.0312	22
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Gauge No	American Wire Gage B & S	Steel Wire Gage (Washburn & Moen)	Birmingham Wire Gage (Stubs' Iron)	Old English Wire Gage (London)	Stubs' Steel Wire Gage	British Standard Wire Gage	U.S. Std. Sheet Gage	Gauge No
23	0.0236	0.0258	0.025	0.0270	0.153	0.024	0.0281	23
24	0.0201	0.0230	0.022	0.0250	0.151	0.022	0.0250	24
25	0.0179	0.0204	0.020	0.0230	0.148	0.020	0.0219	25
26	0.0159	0.0181	0.018	0.0205	0.146	0.018	0.0187	26
27	0.0142	0.0173	0.016	0.01875	0.143	0.0164	0.0172	27
28	0.0126	0.0162	0.014	0.01650	0.139	0.0148	0.0156	28
29	0.0113	0.0150	0.013	0.01550	0.134	0.0136	0.0141	29
30	0.0100	0.0140	0.012	0.01375	0.127	0.0124	0.0125	30
31	0.0089	0.0132	0.010	0.01225	0.120	0.0116	0.0109	31
32	0.0080	0.0128	0.009	0.01125	0.115	0.0108	0.0101	32
33	0.0071	0.0118	0.008	0.01025	0.112	0.0100	0.0094	33
34	0.0063	0.0104	0.007	0.00950	0.110	0.0092	0.0086	34
35	0.0056	0.0095	0.005	0.00900	0.108	0.0084	0.0078	35
36	0.0050	0.0090	0.004	0.00750	0.106	0.0076	0.0070	36
37	0.0045	0.0085		0.00650	0.103	0.0068	0.0066	37
38	0.0040	0.0080		0.00575	0.101	0.0060	0.0062	38
39	0.0035	0.0075		0.00500	0.099	0.0052		39
40	0.0031	0.0070		0.00450	0.097	0.0048		40
41		0.0066			0.095	0.0044		41
42		0.0062			0.092	0.0040		43
43		0.0060			0.088	0.0036		43
44		0.0058			0.085	0.0032		44
45		0.0055			0.081	0.0028		45
46		0.0052			0.079	0.0024		46
47		0.0050			0.077	0.0020		47
48		0.0048			0.075	0.0016		48
49		0.0046			0.072	0.0012		49
50		0.0044			0.069	0.0010		50

Table 1: Kent's Mechanical Engineers' Handbook, Wire Tables, 1936

1.1 American Wire Gage B & S

Gauge No	Amer- ican Wire Gage B & S	Gauge No	Amer- ican Wire Gage B & S
0 000	0.460	19	0.036
000	0.410	20	0.032
00	0.365	21	0.0285
0	0.325	22	0.0253
1	0.289	23	0.0236
2	0.258	24	0.0201
3	0.229	25	0.0179
4	0.204	26	0.0159
5	0.182	27	0.0142
6	0.162	28	0.0126
7	0.144	29	0.0113
8	0.128	30	0.0100
9	0.114	31	0.0089
10	0.102	32	0.0080
11	0.091	33	0.0071
12	0.081	34	0.0063
13	0.072	35	0.0056
14	0.064	36	0.0050
15	0.057	37	0.0045
16	0.051	38	0.0040
17	0.045	39	0.0035
18	0.040	40	0.0031

Table 2: American Wire Gage B & S from Kent's Mechanical Engineers' Handbook

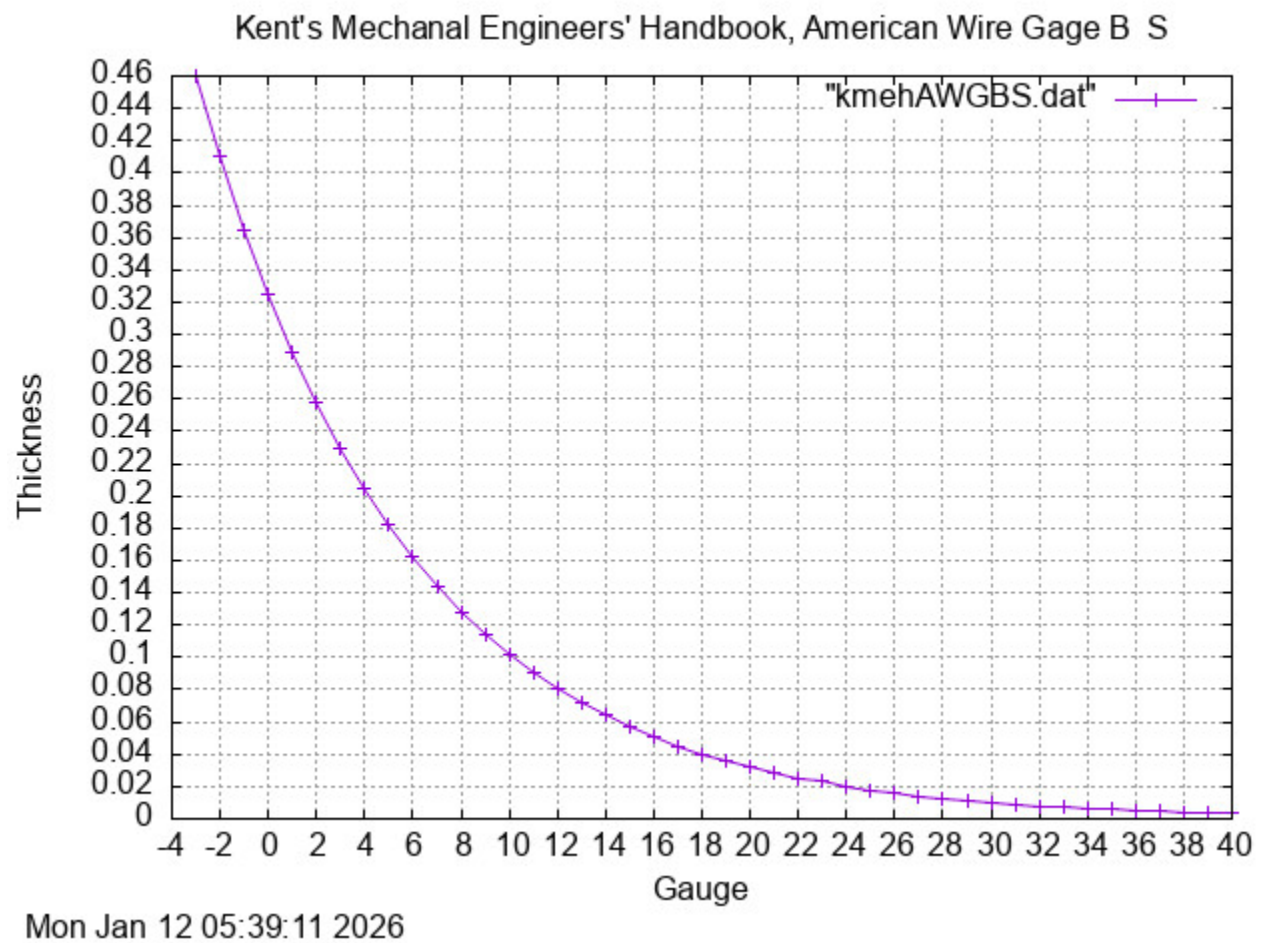


Figure 1: American Wire Gage B & S

1.2 Steel Wire Gage (Washburn & Moen)

Gauge No	Steel Wire Gage (Washburn & Moen)	Gauge No	Steel Wire Gage (Washburn & Moen)
0 000 000	0.4900	23	0.0258
000 000	0.4615	24	0.0230
00 000	0.4305	25	0.0204
0 000	0.3938	26	0.0181
000	0.3625	27	0.0173
00	0.3310	28	0.0162
0	0.3065	29	0.0150
1	0.2830	30	0.0140
2	0.2625	31	0.0132
3	0.2437	32	0.0128
4	0.2253	33	0.0118
5	0.2070	34	0.0104
6	0.1920	35	0.0095
7	0.1770	36	0.0090
8	0.1620	37	0.0085
9	0.1483	38	0.0080
10	0.1350	39	0.0075
11	0.1205	40	0.0070
12	0.1055	41	0.0066
13	0.0915	42	0.0062
14	0.0800	43	0.0060
15	0.0720	44	0.0058
16	0.0625	45	0.0055
17	0.0540	46	0.0052
18	0.0475	47	0.0050
19	0.0410	48	0.0048
20	0.0348	49	0.0046
21	0.0317	50	0.0044
22	0.0286		

Table 3: Steel Wire Gage (Washburn & Moen) from Kent's Mechanical Engineers' Handbook

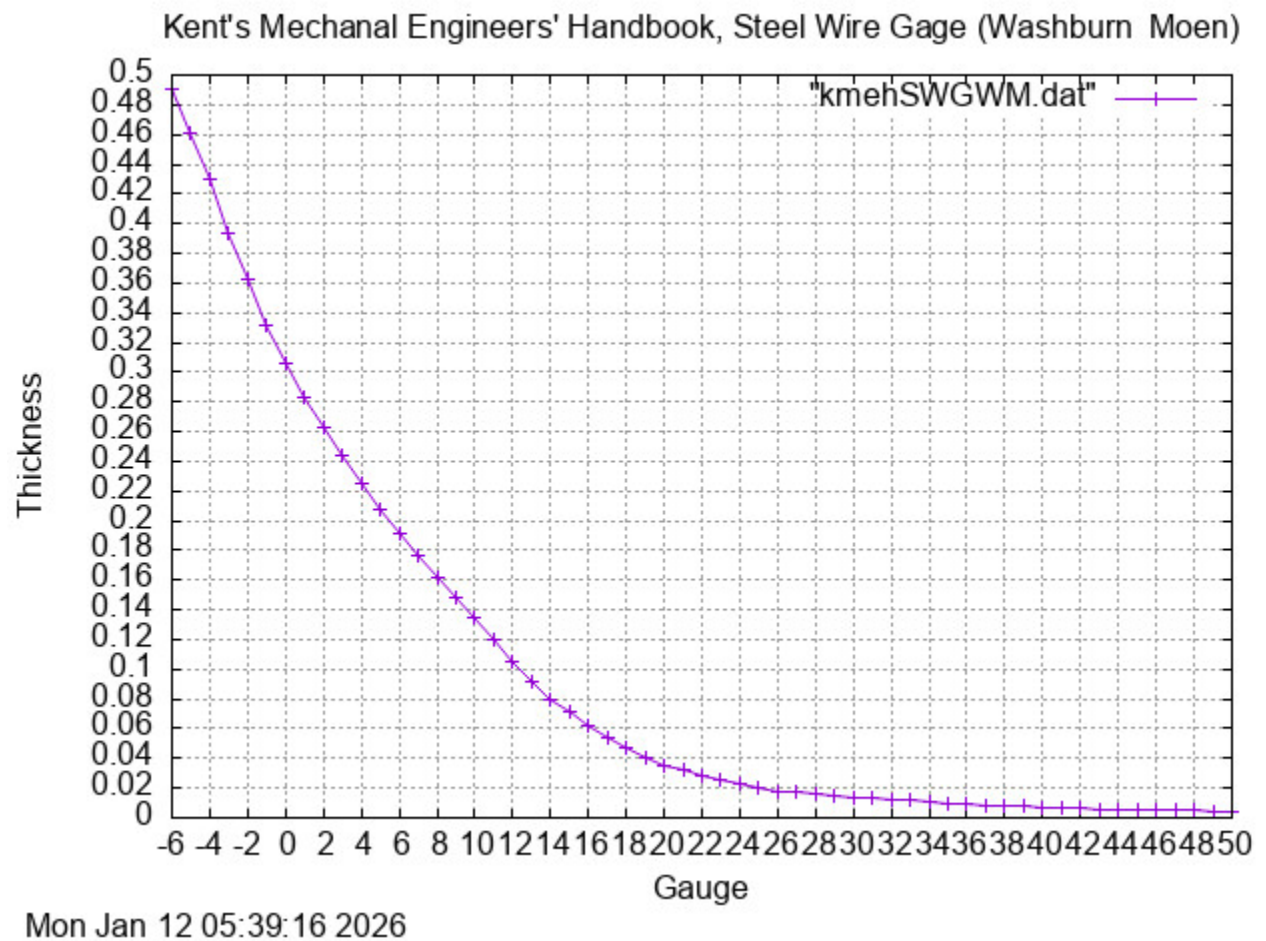


Figure 2: Steel Wire Gage (Washburn & Moen)

1.3 Birmingham Wire Gage (Stubs Iron)

Gauge No	Birming- ham Wire Gage (Stubs' Iron)	Gauge No	Birming- ham Wire Gage (Stubs' Iron)
0 000	0.454	17	0.058
000	0.425	18	0.049
00	0.380	19	0.042
0	0.340	20	0.035
1	0.300	21	0.032
2	0.284	22	0.028
3	0.259	23	0.025
4	0.238	24	0.022
5	0.220	25	0.020
6	0.203	26	0.018
7	0.180	27	0.016
8	0.165	28	0.014
9	0.148	29	0.013
10	0.134	30	0.012
11	0.120	31	0.010
12	0.109	32	0.009
13	0.095	33	0.008
14	0.083	34	0.007
15	0.072	35	0.005
16	0.065	36	0.004

Table 4: Birmingham Wire Gage (Stubs Iron) from Kent's Mechanical Engineers' Handbook

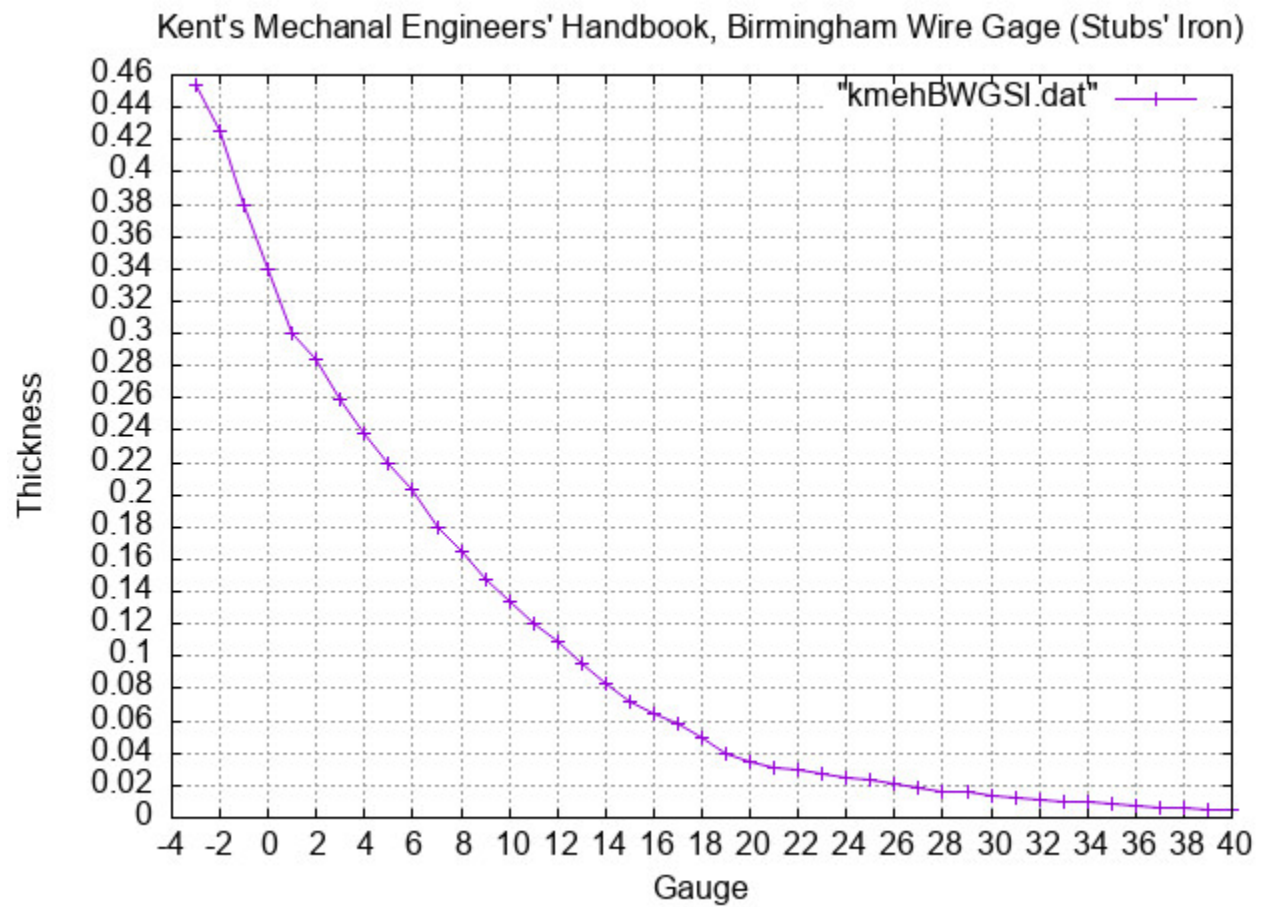
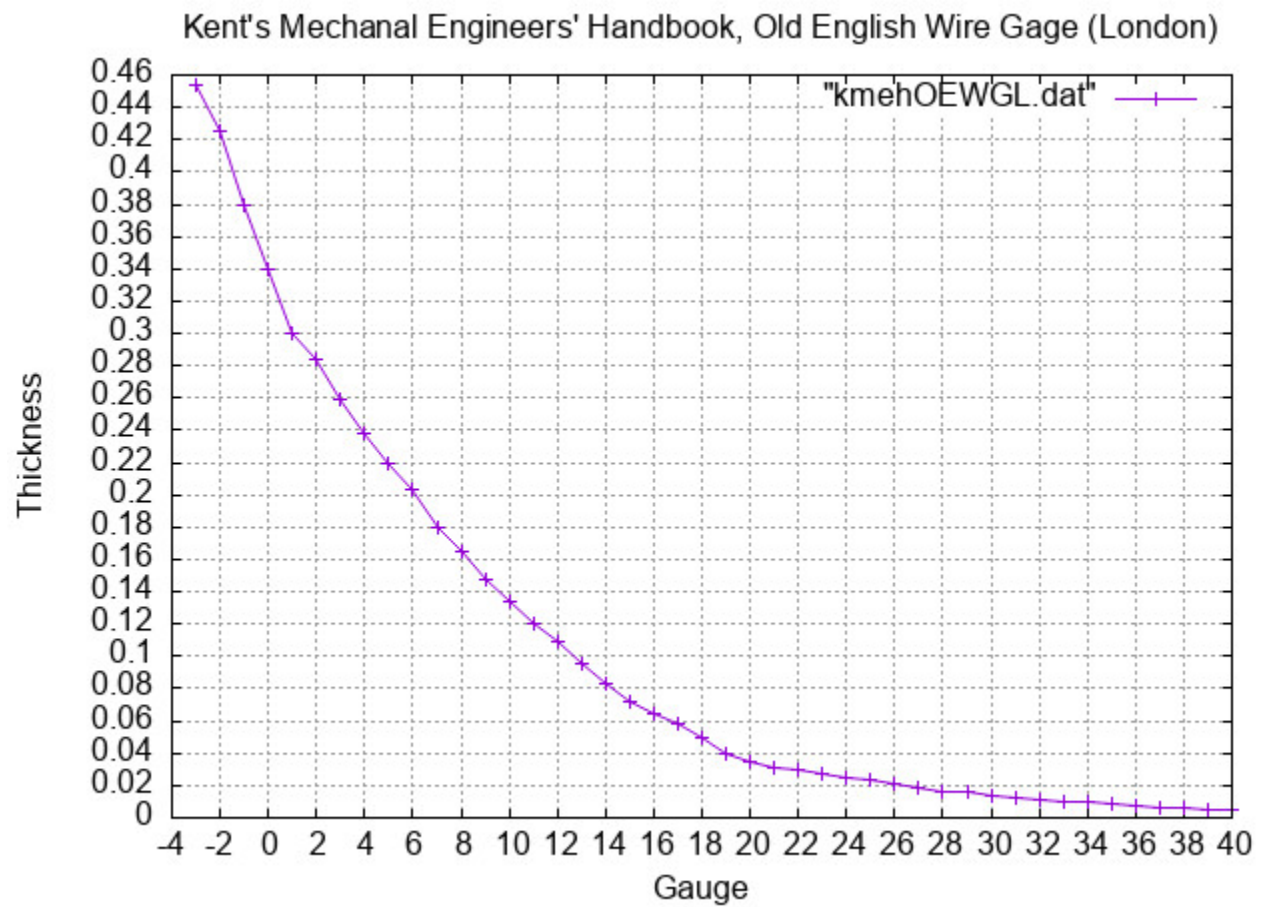


Figure 3: Birmingham Wire Gage (Stubs Iron)

1.4 Old English Wire Gage (London)

Gauge No	Old English Wire Gage (London)	Gauge No	Old English Wire Gage (London)
0 000	0.454	19	0.040
000	0.425	20	0.035
00	0.380	21	0.0315
0	0.340	22	0.0295
1	0.300	23	0.0270
2	0.284	24	0.0250
3	0.259	25	0.0230
4	0.238	26	0.0205
5	0.220	27	0.01875
6	0.203	28	0.01650
7	0.180	29	0.01550
8	0.165	30	0.01375
9	0.148	31	0.01225
10	0.134	32	0.01125
11	0.120	33	0.01025
12	0.109	34	0.00950
13	0.095	35	0.00900
14	0.083	36	0.00750
15	0.072	37	0.00650
16	0.065	38	0.00575
17	0.058	39	0.00500
18	0.049	40	0.00450

Table 5: Old English Wire Gage (London) from Kent's Mechanical Engineers' Handbook



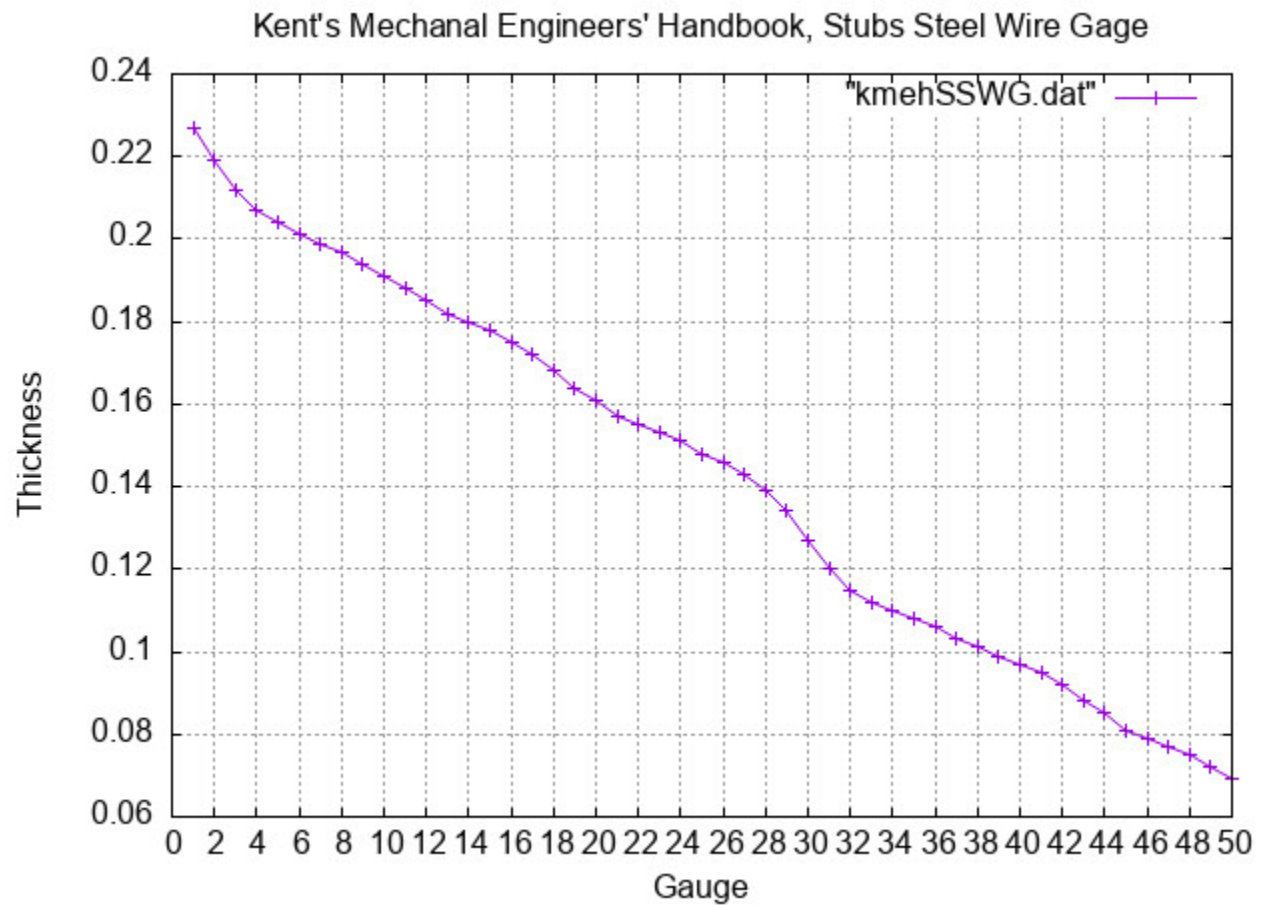
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Figure 4: Old English Wire Gage (London)

1.5 Stubs Steel Wire Gage

Gauge No	Stubs Steel Wire Gage	Gauge No	Stubs Steel Wire Gage
1	0.227	26	0.146
2	0.219	27	0.143
3	0.212	28	0.139
4	0.207	29	0.134
5	0.204	30	0.127
6	0.201	31	0.120
7	0.199	32	0.115
8	0.197	33	0.112
9	0.194	34	0.110
10	0.191	35	0.108
11	0.188	36	0.106
12	0.185	37	0.103
13	0.182	38	0.101
14	0.180	39	0.099
15	0.178	40	0.097
16	0.175	41	0.095
17	0.172	42	0.092
18	0.168	43	0.088
19	0.164	44	0.085
20	0.161	45	0.081
21	0.157	46	0.079
22	0.155	47	0.077
23	0.153	48	0.075
24	0.151	49	0.072
25	0.148	50	0.069

Table 6: Stubs Steel Wire Gage from Kent's Mechanical Engineers' Handbook



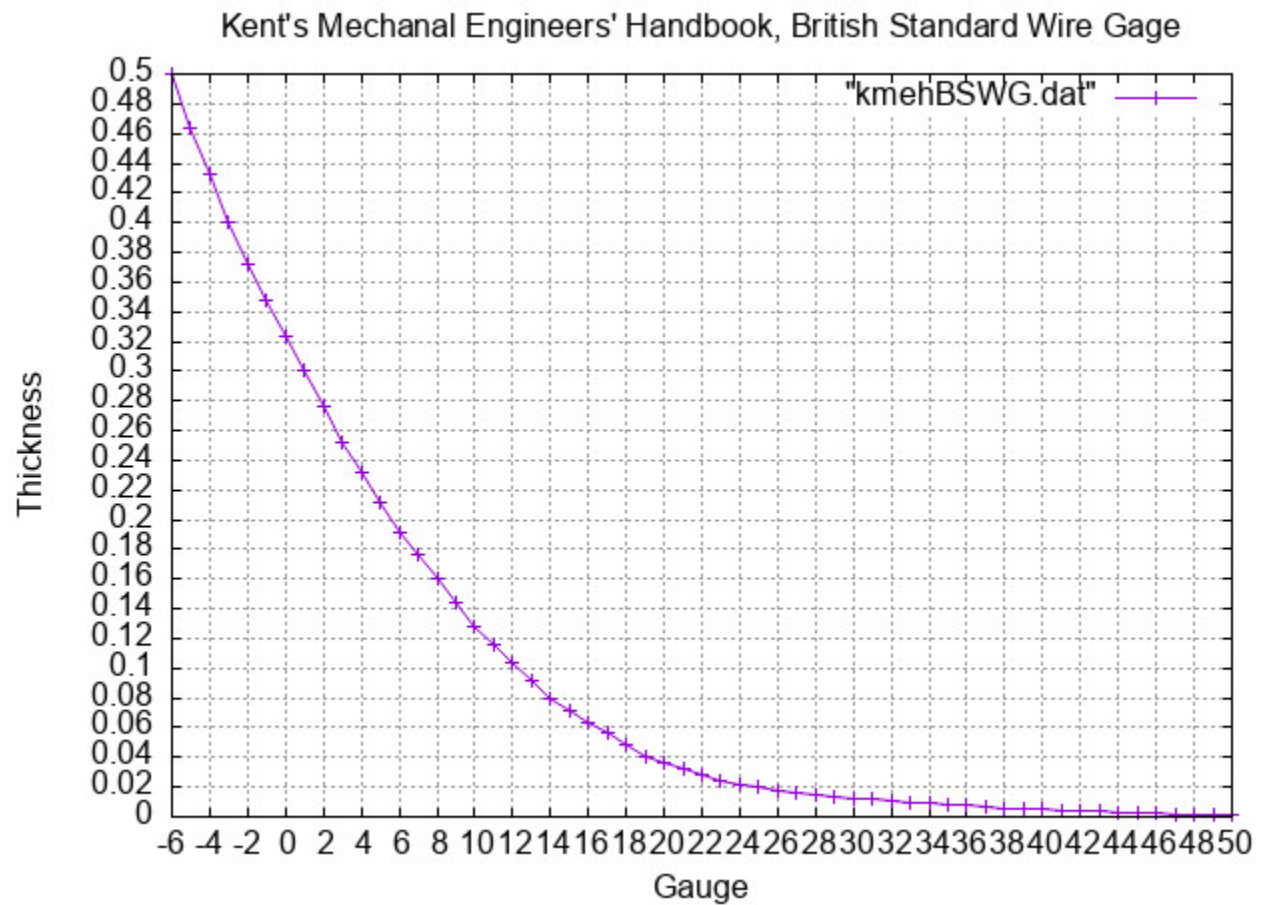
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Figure 5: Stubs Steel Wire Gage

1.6 British Standard Wire Gage

Gauge No	British Standard Wire Gage	Gauge No	British Standard Wire Gage
0 000 000	0.500	23	0.024
000 000	0.464	24	0.022
00 000	0.432	25	0.020
0 000	0.400	26	0.018
000	0.372	27	0.0164
00	0.348	28	0.0148
0	0.324	29	0.0136
1	0.300	30	0.0124
2	0.276	31	0.0116
3	0.252	32	0.0108
4	0.232	33	0.0100
5	0.212	34	0.0092
6	0.192	35	0.0084
7	0.176	36	0.0076
8	0.160	37	0.0068
9	0.144	38	0.0060
10	0.128	39	0.0052
11	0.116	40	0.0048
12	0.104	41	0.0044
13	0.092	42	0.0040
14	0.080	43	0.0036
15	0.072	44	0.0032
16	0.064	45	0.0028
17	0.056	46	0.0024
18	0.048	47	0.0020
19	0.040	48	0.0016
20	0.036	49	0.0012
21	0.032	50	0.0010
22	0.028		

Table 7: British Standard Wire Gage from Kent's Mechanical Engineers' Handbook



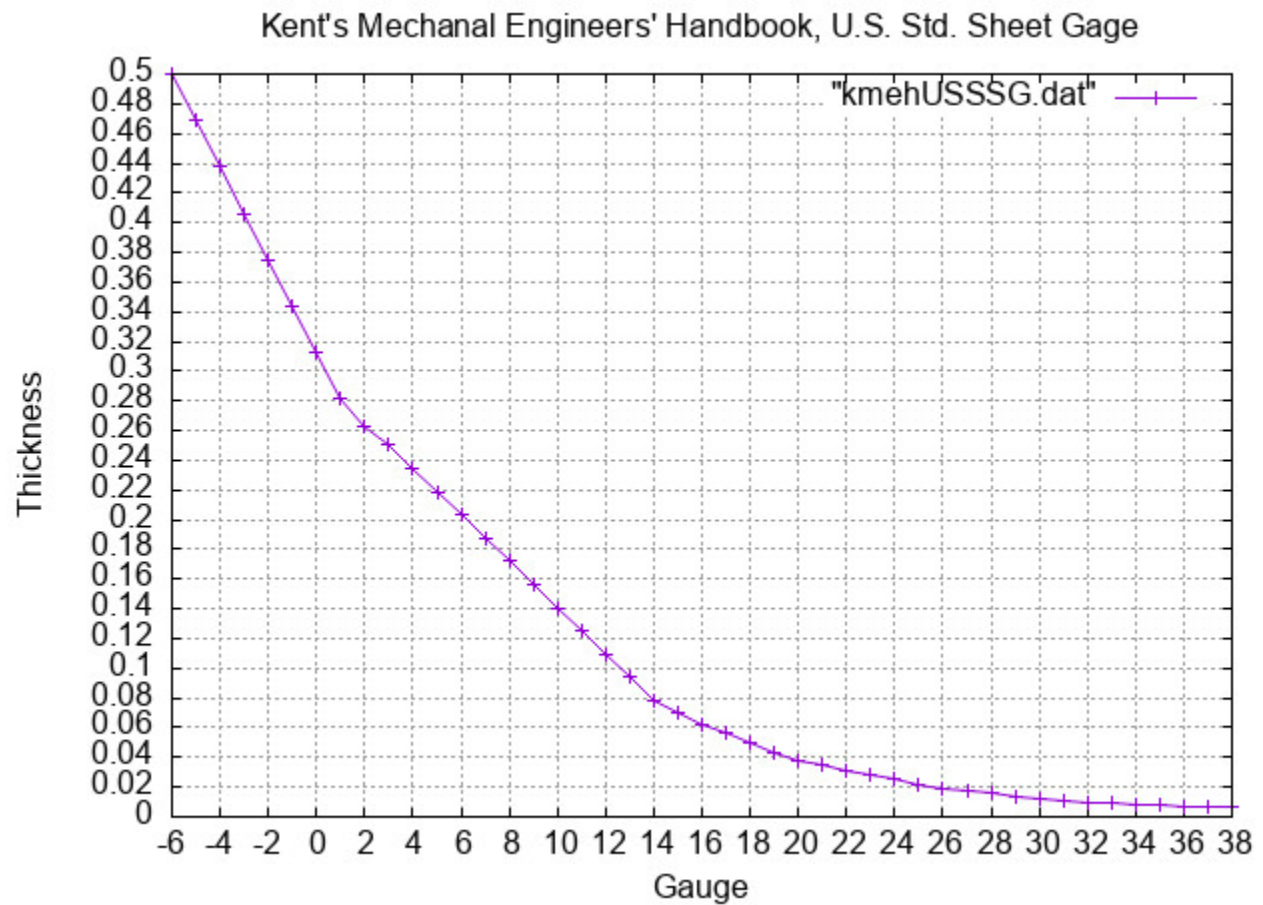
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Figure 6: British Standard Wire Gage

1.7 U.S. Std. Sheet Gage

Gauge No	U.S. Std. Sheet Gage	Gauge No	U.S. Std. Sheet Gage
0 000 000	0.5000	17	0.0562
000 000	0.4687	18	0.0500
00 000	0.4375	19	0.0437
0 000	0.4062	20	0.0375
000	0.3750	21	0.0344
00	0.3437	22	0.0312
0	0.3125	23	0.0281
1	0.2812	24	0.0250
2	0.2625	25	0.0219
3	0.2500	26	0.0187
4	0.2344	27	0.0172
5	0.2187	28	0.0156
6	0.2035	29	0.0141
7	0.1875	30	0.0125
8	0.1719	31	0.0109
9	0.1562	32	0.0101
10	0.1406	33	0.0094
11	0.1250	34	0.0086
12	0.1094	35	0.0078
13	0.0937	36	0.0070
14	0.0781	37	0.0066
15	0.0703	38	0.0062
16	0.0625		

Table 8: U.S. Std. Sheet Gage from Kent's Mechanical Engineers' Handbook



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Figure 7: U.S. Std. Sheet Gage

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American Wire Gage B & S, 4

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Birmingham Wire Gage (Stubs Iron), 8

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Steel Wire Gage (Washburn & Moen), 6

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