

"Handbook of Chemistry and Physics".tex

19 January 2026

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1 This is the full set of wire gauge tables from the 1920 edition of the Handbook of Chemistry and Physics

This table is the complete table of gauge values as found in the 1920 edition of the handbook of Chemistry and Physics, on pages 673 and 674. Due to the quality of the scanned image, the values were reentered by hand in October 2025. On the following pages the gauge values are displayed in a one-on-a-page format.

Gauge No	Brown & Sharpe	Birmingham or Stub's	Washburn & Moen	Imperial or Brit. Std.	Stub's Steel	U.S.Std. Plate	Music wire
Handbook of Chemistry and Physics, Wire Tables							
00 000 000							.0083
0 000 000				.500			.0087
000 000				.464		.46875	.0095
00 000				.432		.4375	.0100
0 000	.4600	.454	.3938	.400		.40625	.0110
000	.4096	.425	.3625	.372		.375	.0120
00	.3648	.380	.3310	.348		.34375	.0133
0	.3249	.340	.3065	.324		.3125	.0144
1	.2893	.300	.2830	.300	.227	.28125	.0156
2	.2576	.284	.2625	.276	.219	.265625	.0166
3	.2294	.259	.2437	.252	.212	.25	.0178
4	.2043	.238	.2253	.232	.207	.234375	.0188
5	.1819	.220	.2070	.212	.204	.21875	.0202
6	.1620	.203	.1920	.192	.201	.203125	.0215
7	.1443	.180	.1770	.176	.199	.1875	.0230
8	.1285	.165	.1620	.160	.197	.171875	.0243
9	.1144	.148	.1483	.144	.194	.15625	.0256
10	.1019	.134	.1350	.128	.191	.140625	.0270
11	.09074	.120	.1205	.116	.188	.125	.0284
12	.08081	.109	.1055	.104	.185	.109375	.0296
13	.07196	.095	.0915	.092	.182	.09375	.0314
14	.06408	.083	.0800	.080	.180	.078125	.0326
15	.05707	.072	.0720	.072	.178	.0703125	.0345
16	.05082	.065	.0625	.064	.175	.0625	.0360
17	.04526	.058	.0540	.056	.172	.05625	.0377
18	.04030	.049	.0475	.048	.168	.05	.0395
19	.03589	.042	.0410	.040	.164	.04375	.0414
20	.03196	.035	.0348	.036	.161	.0375	.0434
21	.02846	.032	.0318	.032	.157	.034375	.0460
Continued on the next page.							

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Gauge No	Brown & Sharpe	Birmingham or Stub's	Washburn & Moen	Imperial or Brit. Std.	Stub's Steel	U.S.Std. Plate	Music wire
22	.02535	.028	.0286	.028	.155	.03125	.0483
23	.02257	.025	.0258	.024	.153	.028125	.0515
24	.02010	.022	.0230	.022	.151	.025	.0550
25	.01790	.020	.0204	.020	.148	.0218875	.0586
26	.01594	.018	.0181	.018	.146	.01875	.0626
27	.01419	.016	.0173	.0164	.143	.0171875	.0658
28	.01264	.014	.0162	.0149	.139	.015625	.0720
29	.01126	.013	.0150	.0136	.134	.0140625	.0760
30	.01003	.012	.0140	.0124	.127	.0125	.0800
31	.008928	.010	.0132	.0116	.120	.0109375	.0820
32	.007950	.009	.0128	.0108	.115	.01015625	.0860
33	.007080	.008	.0118	.0100	.112	.009375	.0900
34	.006304	.007	.0104	.0092	.110	.00859375	.0950
35	.005614	.005	.0095	.0084	.108	.0078125	
36	.005000	.004	.0090	.0076	.106	.00703125	
37	.004453			.0068	.103	.006640625	
38	.003965			.0060	.101	.00625	
39	.003531			.0052	.099		
40	.003145			.0048	.097		

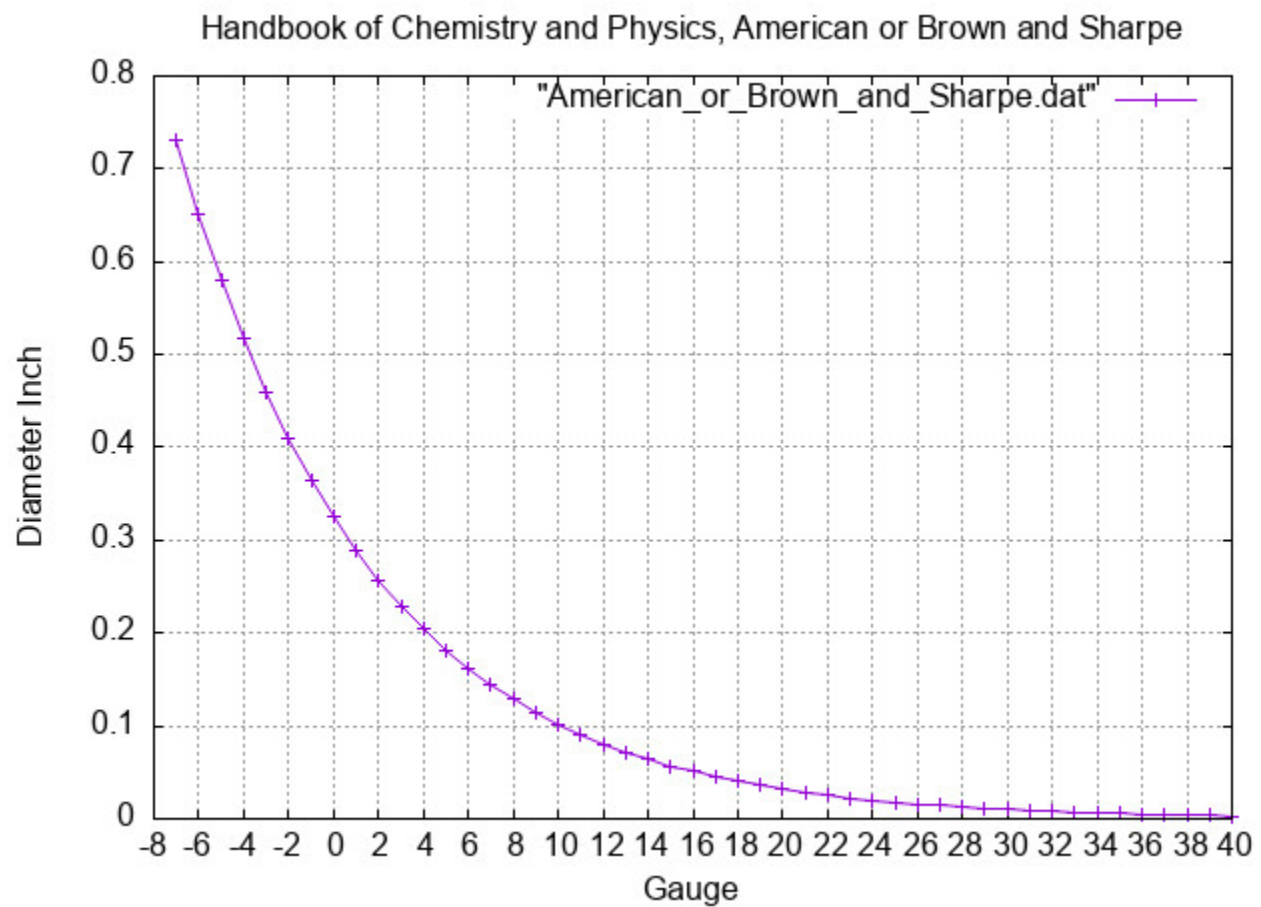
Table 1: Handbbok of Chemistry and Physics, Wire Tables

1.1 American or Brown & Sharpe

Number of Wire Gage	American or Brown & Sharpe	Number of Wire Gage	American or Brown & Sharpe
00 000 000	.731429	17	.045257
0 000 000	.651356	18	.040303
000 000	.580049	19	.035891
00 000	.516549	20	.031961
0 000	.460000	21	.028462
000	.409642	22	.025347
00	.364797	23	.022572
0	.324861	24	.020101
1	.289279	25	.017900
2	.257626	26	.015941
3	.229423	27	.014196
4	.204307	28	.012641
5	.181941	29	.011258
6	.162023	30	.010025
7	.144285	31	.008928
8	.128490	32	.007950
9	.114424	33	.007080
10	.101897	34	.006305
11	.090742	35	.005615
12	.080808	36	.005000
13	.071962	37	.004453
14	.064084	38	.003965
15	.057068	39	.003531
16	.050821	40	.003145

Table 2: American or Brown & Sharpe

⁰American or Brown and Sharpe.inc 19 January 2026 17:06



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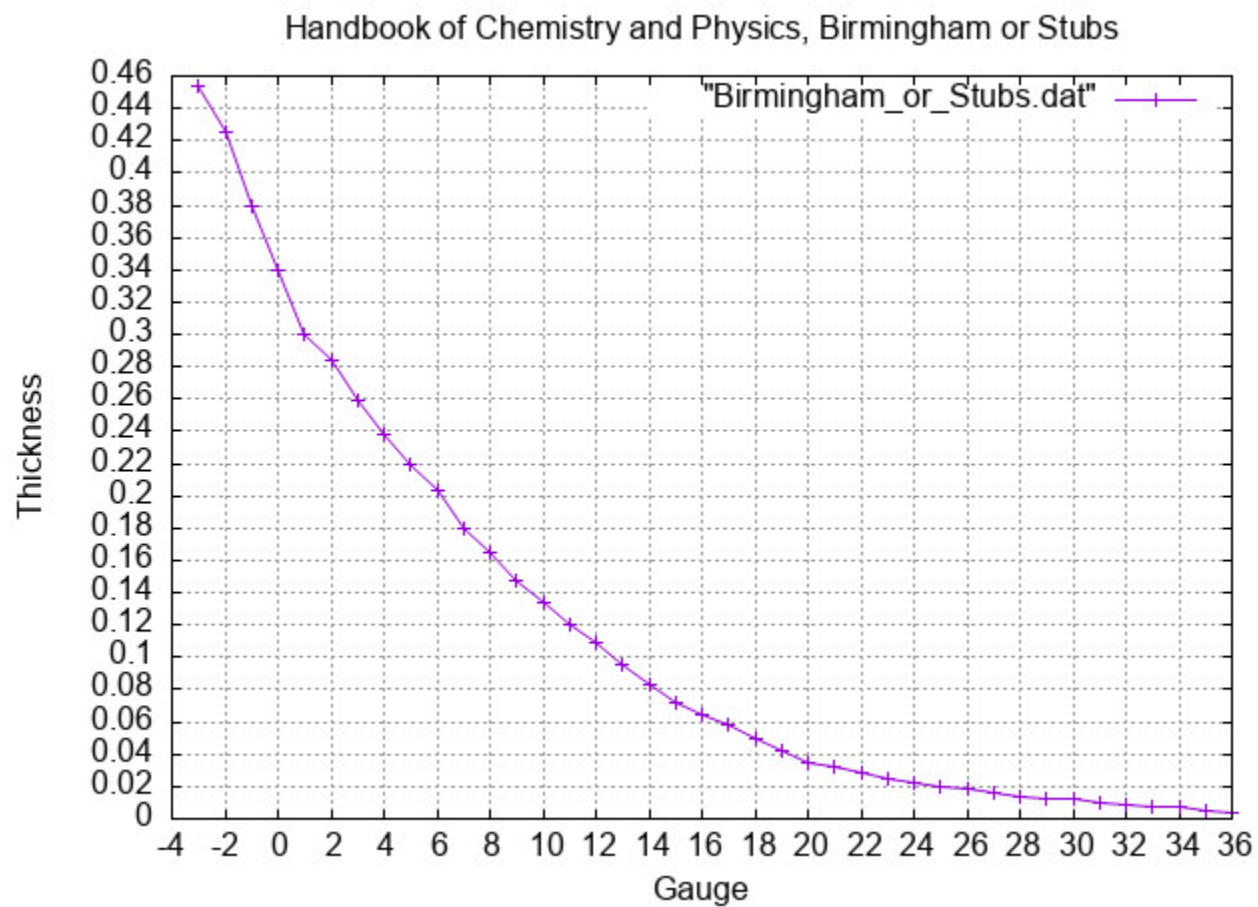
Figure 1: American or Brown & Sharpe

1.2 Birmingham or Stubs

Number of Wire Gage	Birmingham or Stubs	Number of Wire Gage	Birmingham or Stubs
0 000	.454	17	.058
000	.425	18	.049
00	.380	19	.042
0	.340	20	.035
1	.300	21	.032
2	.284	22	.028
3	.259	23	.025
4	.238	24	.022
5	.220	25	.020
6	.203	26	.018
7	.180	27	.016
8	.165	28	.014
9	.148	29	.013
10	.134	30	.012
11	.120	31	.010
12	.109	32	.009
13	.095	33	.008
14	.083	34	.007
15	.072	35	.005
16	.065	36	.004

Table 3: Birmingham or Stubs' Iron Wire

⁰Birmingham or Stubs.inc 19 January 2026 17:06



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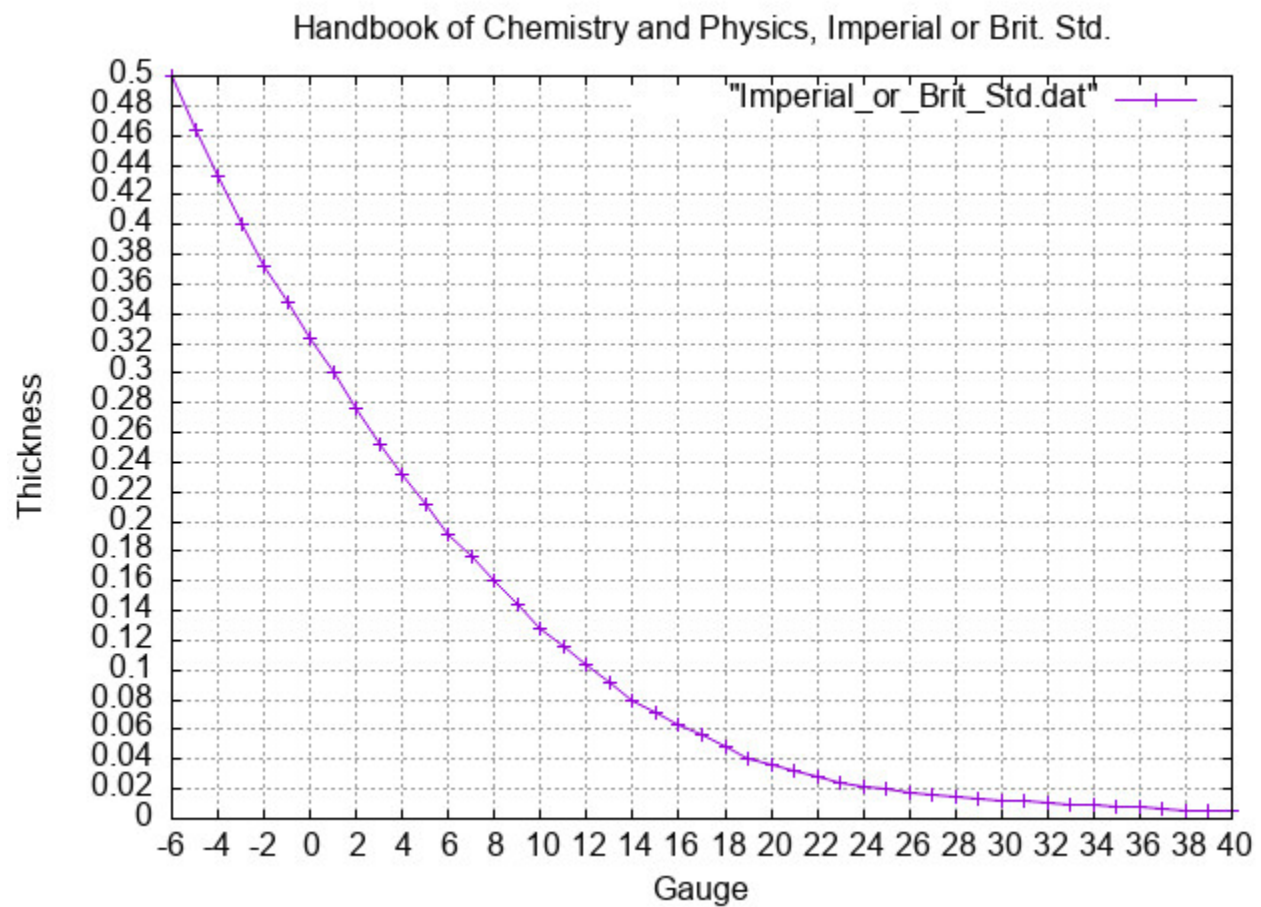
Figure 2: Birmingham or Stubs

1.3 Imperial or Brit Std

Number of Wire Gage	Imperial or Brit Std	Number of Wire Gage	Imperial or Brit Std
0 000 000	.500	18	.048
000 000	.464	19	.040
00 000	.432	20	.036
0 000	.400	21	.032
000	.372	22	.028
00	.348	23	.024
0	.324	24	.022
1	.300	25	.020
2	.276	26	.018
3	.252	27	.0164
4	.232	28	.0149
5	.212	29	.0136
6	.192	30	.0124
7	.176	31	.0116
8	.160	32	.0108
9	.144	33	.0100
10	.128	34	.0092
11	.116	35	.0084
12	.104	36	.0076
13	.092	37	.0068
14	.080	38	.0060
15	.072	39	.0052
16	.064	40	.0048
17	.056		

Table 4: Imperial or Brit Std

⁰Imperial or Brit Std.inc 19 January 2026 17:06



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Figure 3: Imperial or Brit Std

1.4 Music Wire

Number of Wire Gauge	Music Wire	Number of Wire Gauge	Music Wire
00 000 000	.0083	14	.0326
0 000 000	.0087	15	.0345
000 000	.0095	16	.0360
00 000	.0100	17	.0377
0 000	.0110	18	.0395
000	.0120	19	.0414
00	.0133	20	.0434
0	.0144	21	.0460
1	.0156	22	.0483
2	.0166	23	.0515
3	.0178	24	.0550
4	.0188	25	.0586
5	.0202	26	.0626
6	.0215	27	.0658
7	.0230	28	.0720
8	.0243	29	.0760
9	.0256	30	.0800
10	.0270	31	.0820
11	.0284	32	.0860
12	.0296	33	.0900
13	.0314	34	.0950

Table 5: Music Wire Gauge

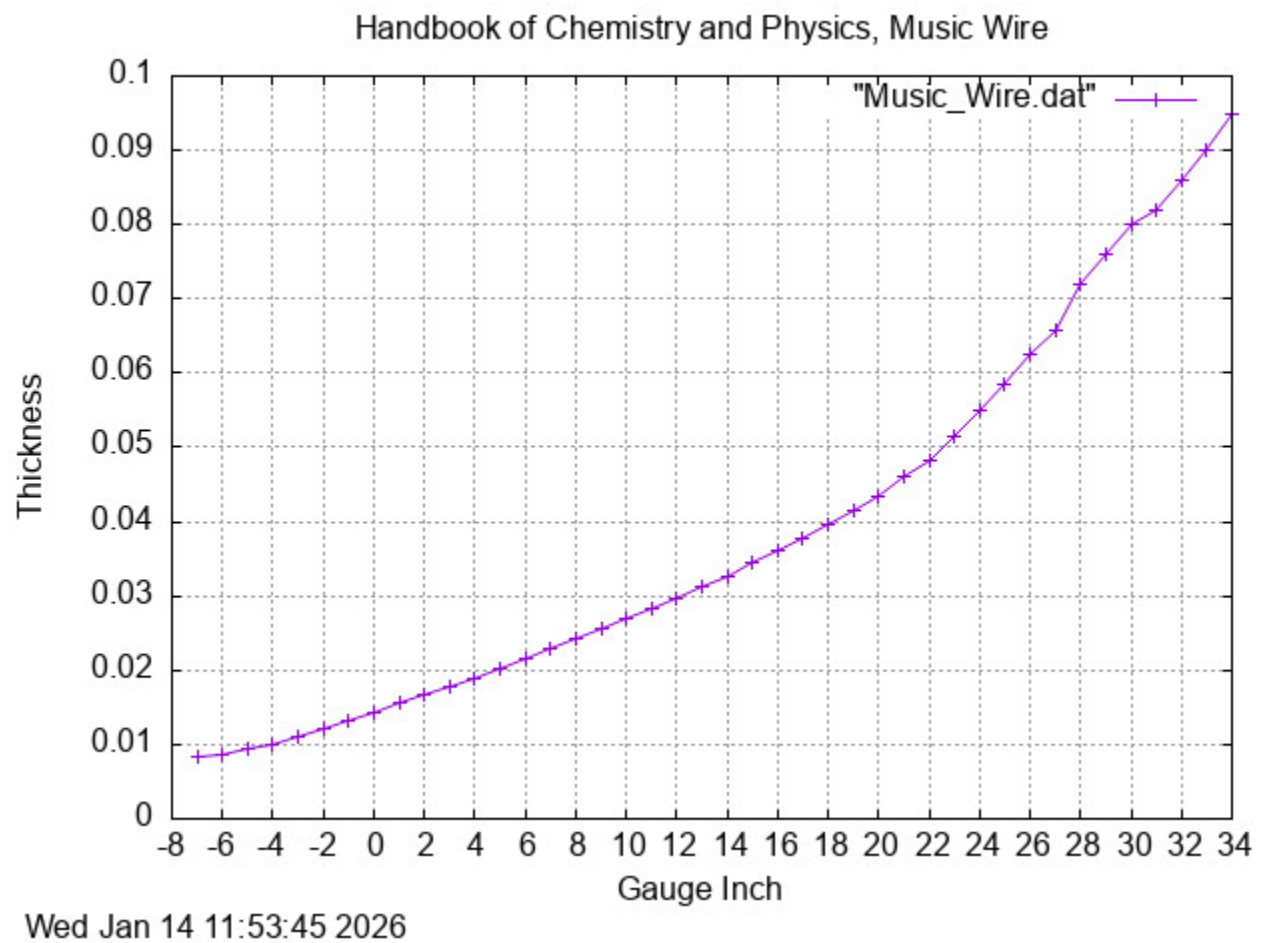
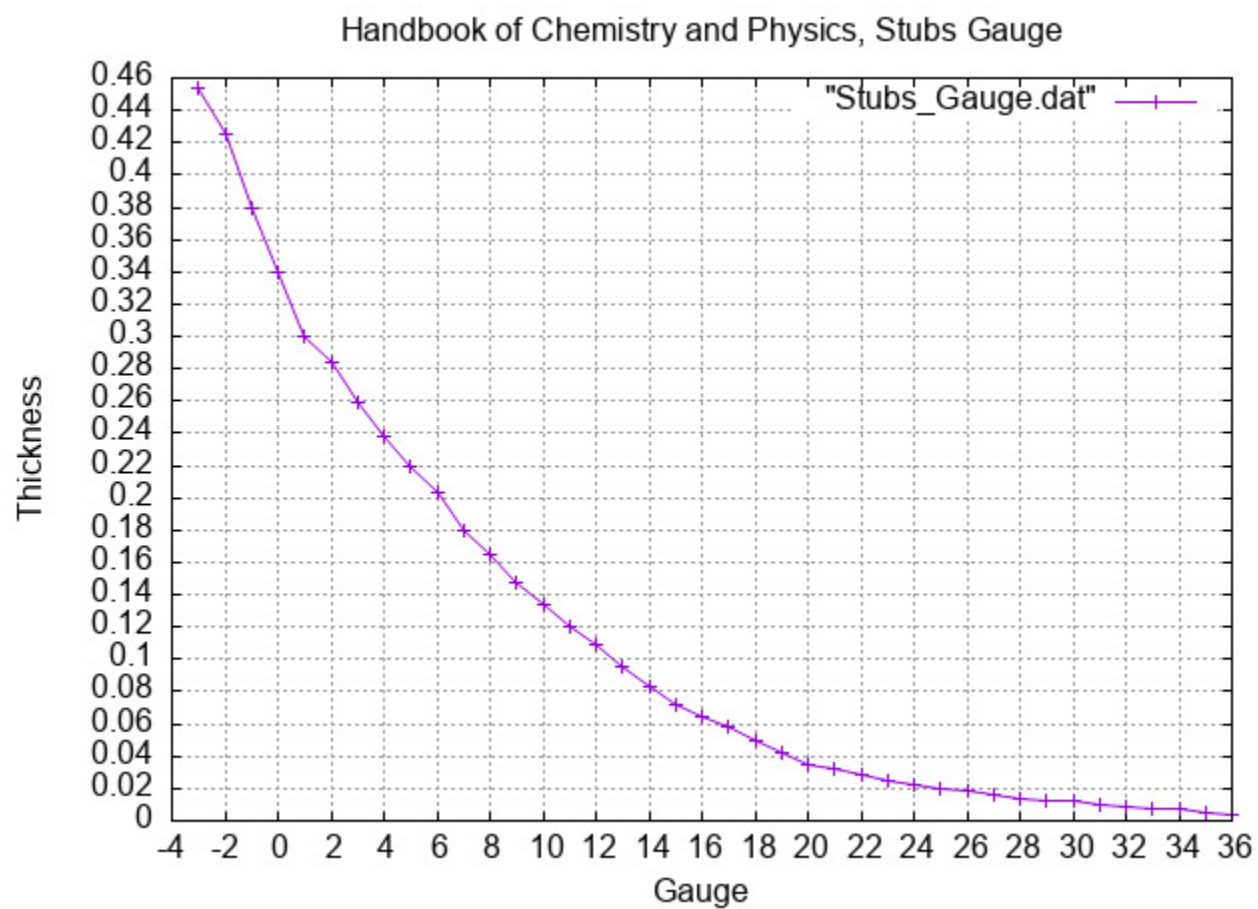


Figure 4: Music Wire

1.5 Stubs Gauge

Number of Wire Gauge	Stubs	Number of Wire Gauge	Stubs
-3	.454	17	.058
-2	.425	18	.049
-1	.380	19	.042
0	.340	20	.035
1	.300	21	.032
2	.284	22	.028
3	.259	23	.025
4	.238	24	.022
5	.220	25	.020
6	.203	26	.018
7	.180	27	.016
8	.165	28	.014
9	.148	29	.013
10	.134	30	.012
11	.120	31	.010
12	.109	32	.009
13	.095	33	.008
14	.083	34	.007
15	.072	35	.005
16	.065	36	.004

Table 6: Stubs Gauge



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Figure 5: Stubs Gauge

1.6 Stubs Steel

Number of Wire Gauge	Stubs Steel	Number of Wire Gauge	Stubs Steel
1	.227	21	.157
2	.219	22	.155
3	.212	23	.153
4	.207	24	.151
5	.204	25	.148
6	.201	26	.146
7	.199	27	.143
8	.197	28	.139
9	.194	29	.134
10	.191	30	.127
11	.188	31	.120
12	.185	32	.115
13	.182	33	.112
14	.180	34	.110
15	.178	35	.108
16	.175	36	.106
17	.172	37	.103
18	.168	38	.101
19	.164	39	.099
20	.161	40	.097

Table 7: Stubs Steel

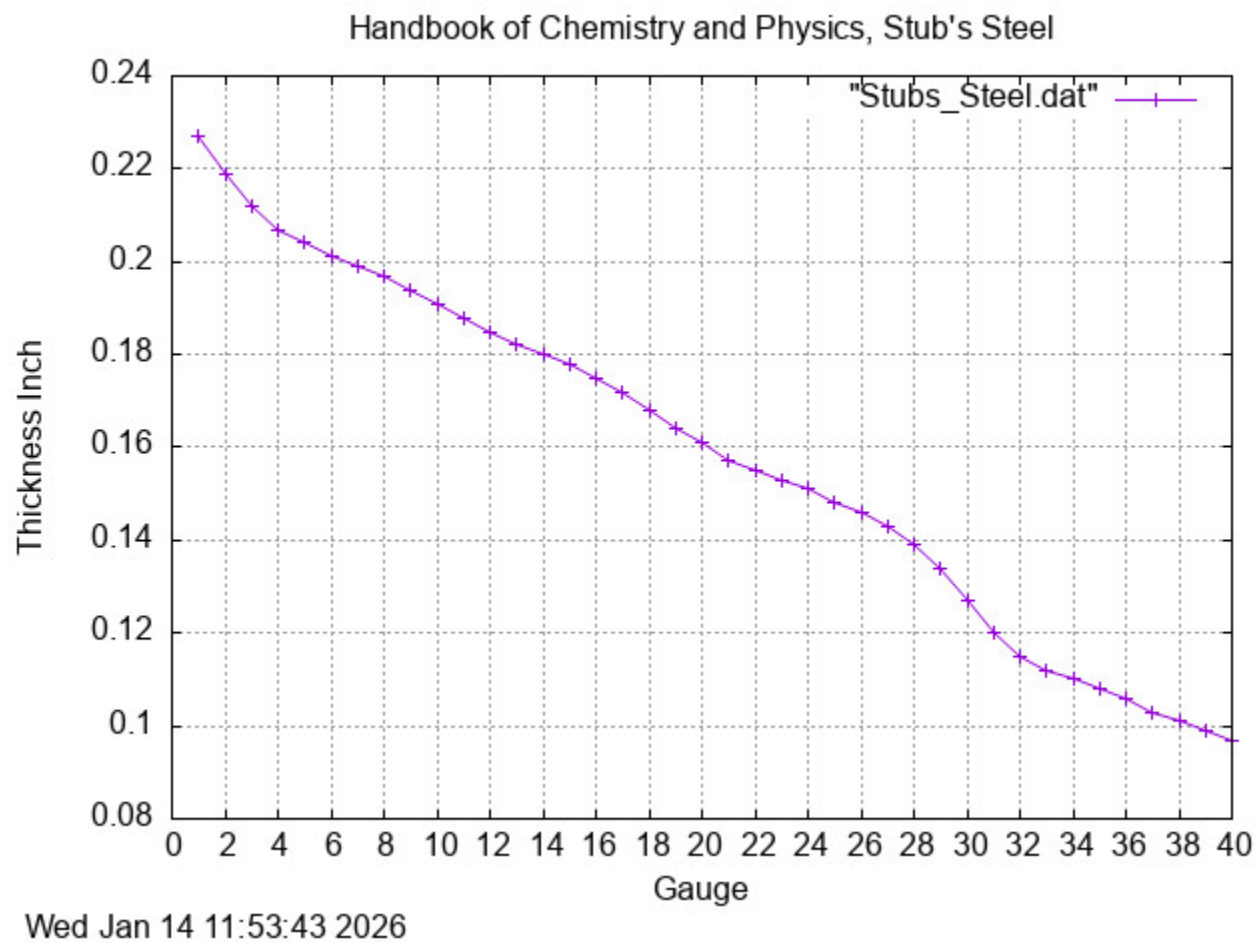


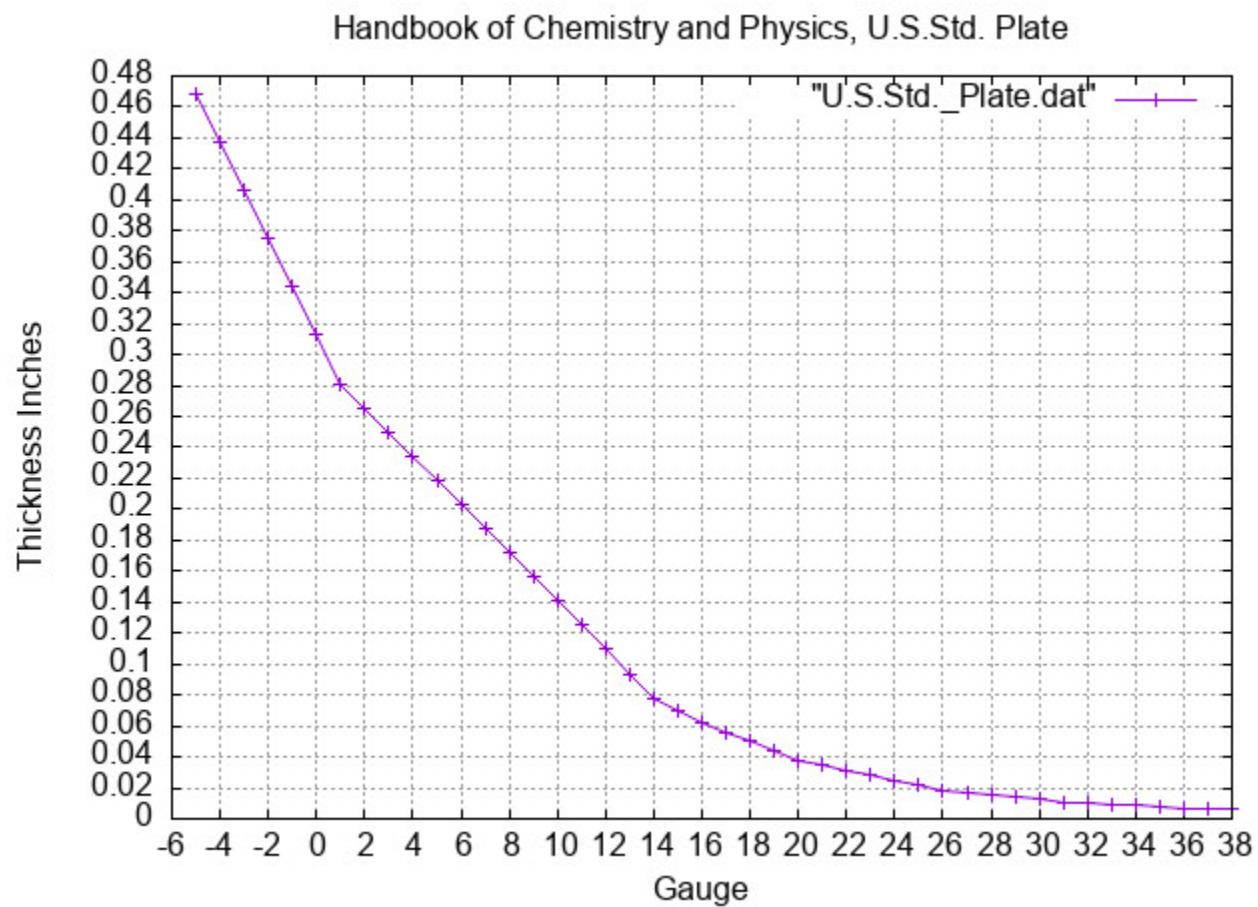
Figure 6: Stub's Steel

1.7 U.S.Std. Plate

Number of Wire Gauge	U.S.Std. Plate	Number of Wire Gauge	U.S.Std. Plate
000 000	.46875	17	.05625
00 000	.4375	18	.05
0 000	.40625	19	.04375
000	.375	20	.0375
00	.34375	21	.034375
0	.3125	22	.03125
1	.28125	23	.028125
2	.265625	24	.025
3	.25	25	.0218875
4	.234375	26	.01875
5	.21875	27	.0171875
6	.203125	28	.015625
7	.1875	29	.0140625
8	.171875	30	.0125
9	.15625	31	.0109375
10	.140625	32	.01015625
11	.125	33	.009375
12	.109375	34	.00859375
13	.09375	35	.0078125
14	.078125	36	.00703125
15	.0703125	37	.006640625
16	.0625	38	.00625

Table 8: U.S.Std. Plate

⁰U.S.Std. Plate.inc 19 January 2026 17:06



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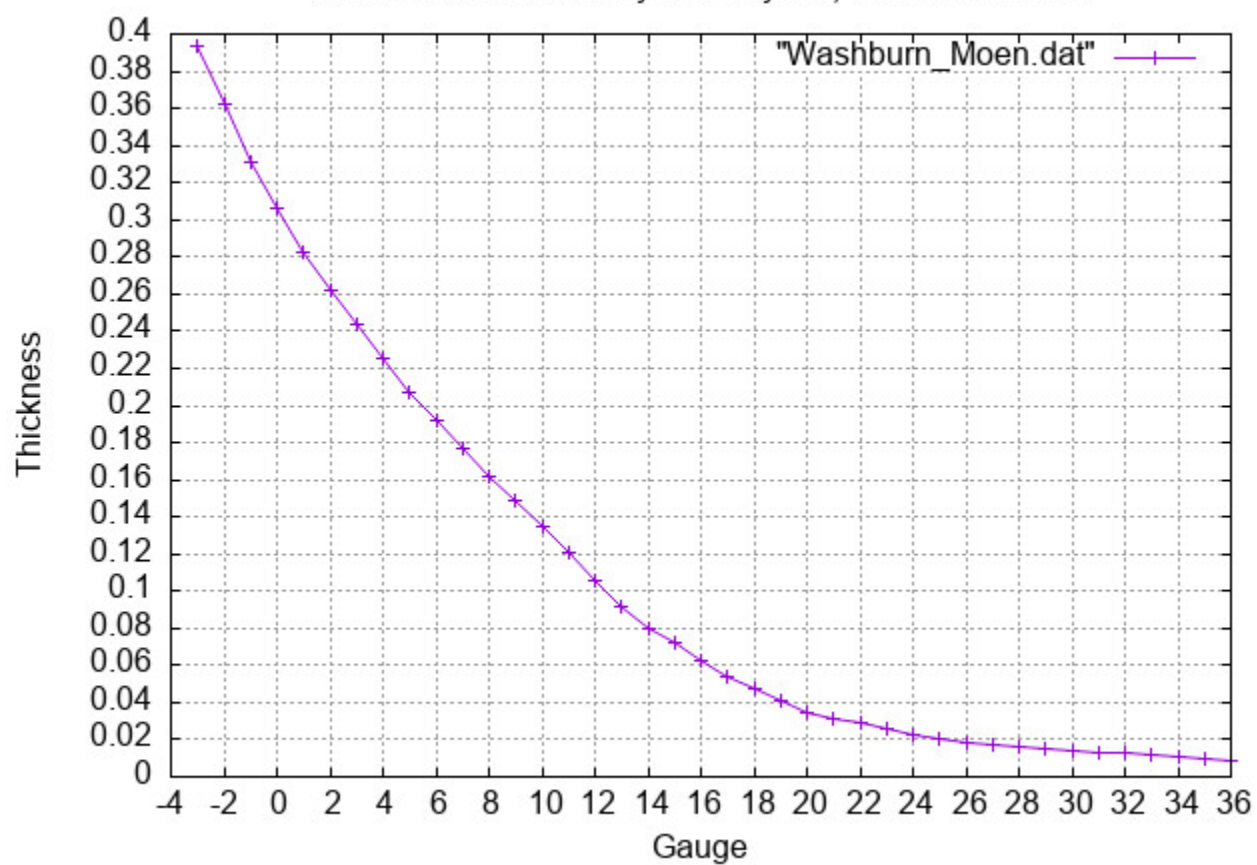
Figure 7: U.S.Std. Plate

1.8 Washburn & Moen

Number of Wire Gauge	Washburn Moen	Number of Wire Gauge	Washburn Moen
00 003	.3938	17	.0540
0 002	.3625	18	.0475
001	.3310	19	.0410
0	.3065	20	.0348
1	.2830	21	.0318
2	.2625	22	.0286
3	.2437	23	.0258
4	.2253	24	.0230
5	.2070	25	.0204
6	.1920	26	.0181
7	.1770	27	.0173
8	.1620	28	.0162
9	.1483	29	.0150
10	.1350	30	.0140
11	.1205	31	.0132
12	.1055	32	.0128
13	.0915	33	.0118
14	.0800	34	.0104
15	.0720	35	.0095
16	.0625	36	.0090

Table 9: Washburn Moen

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Figure 8: Washburn& Moen

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