

”Mining Engineers’ Handbook”.tex

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1 Gauge Sizes from the Mining Engineers' Handbook 1941

Gauge No	American or Brown & Sharpe	Birmingham or Stubbs	Washburn & Moen Mfg Co	Imperial Wire Gage	Stubbs Steel Wire Gage	U.S. Stand. for Sheets and Plate	Approx thickness, fractions of in.
Mining Engineers' Handbook, 1941							
0 000 000						0.50	1/2
000 000				0.464		0.46875	15/32
00 000				0.432		0.4375	7/16
0 000	0.46	0.454	0.3938	0.400		0.40625	13/32
000	0.40964	0.425	0.3625	0.372		0.375	3/8
00	0.3648	0.38	0.3310	0.348		0.34375	11/32
0	0.32486	0.34	0.3065	0.324		0.3125	5/16
1	0.2893	0.3	0.2830	0.300	0.227	0.28125	9/32
2	0.25763	0.284	0.2625	0.276	0.219	0.265625	17/64*
3	0.22942	0.259	0.2437	0.252	0.212	0.25	1/4
4	0.20431	0.238	0.2253	0.232	0.207	0.234375	15/64
5	0.18194	0.22	0.2070	0.212	0.204	0.21875	7/32
6	0.16202	0.203	0.1920	0.192	0.201	0.203125	13/64
7	0.14428	0.18	0.1770	0.176	0.199	0.1875	3/16
8	0.12849	0.165	0.1620	0.160	0.197	0.171875	11/64
9	0.11443	0.148	0.1483	0.144	0.194	0.15625	5/32
10	0.10189	0.134	0.1350	0.128	0.191	0.140625	9/64
11	0.090742	0.12	0.1205	0.116	0.188	0.125	1/8
12	0.080808	0.109	0.1055	0.104	0.185	0.109375	7/64
13	0.071961	0.095	0.0915	0.092	0.182	0.09375	3/32
14	0.064084	0.083	0.0800	0.080	0.180	0.078125	5/64
15	0.057068	0.072	0.0720	0.072	0.178	0.0703125	9/128
16	0.05082	0.065	0.0625	0.064	0.175	0.0625	1/16
17	0.045257	0.058	0.0540	0.056	0.172	0.05625	9/160
18	0.040303	0.049	0.0475	0.048	0.168	0.05	1/20
19	0.03589	0.042	0.0410	0.040	0.164	0.04375	7/160
20	0.031961	0.035	0.0348	0.036	0.161	0.0365	3/80
21	0.028462	0.032	0.03175	0.032	0.157	0.034375	11/320
22	0.025347	0.028	0.0286	0.028	0.155	0.03125	1/32
23	0.022571	0.025	0.0258	0.024	0.153	0.028125	9/320
24	0.0201	0.022	0.0230	0.022	0.151	0.025	1/40
Continued on the next page.							

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Gauge No	American or Brown & Sharpe	Birmingham or Stubbs	Washburn & Moen Mfg Co	Imperial Wire Gage	Stubbs Steel Wire Gage	U.S. Stand. for Sheets and Plate	Approx thickness, fractions of in.
25	0.0179	0.02	0.0204	0.020	0.148	0.021825	7/320
26	0.01594	0.018	0.0181	0.018	0.146	0.01875	3/160
27	0.014195	0.016	0.0173	0.0164	0.143	0.0171875	11/640
28	0.012641	0.014	0.0162	0.0149	0.139	0.015625	1/64
29	0.011257	0.013	0.0150	0.0136	0.134	0.0140625	9/640
30	0.010025	0.012	0.0140	0.0124	0.127	0.0125	1/80
31	0.008928	0.01	0.0132	0.0116	0.120	0.010109375	1/640
32	0.00795	0.009	0.0128	0.0108	0.115	0.01015625	15/1280
33	0.00708	0.008	0.0118	0.0100	0.112	0.009375	3/320
34	0.006304	0.007	0.0104	0.0092	0.110	0.00859375	11/1280
35	0.005614	0.005	0.0095	0.0084	0.108	0.0078125	5/640
36	0.005	0.004	0.0090	0.0076	0.106	0.00703125	9/1280
37	0.004453			0.0068	0.103	0.006640625	17/2560
38	0.003965			0.0060	0.101	0.00625	1/160

Table 1: Table 19. Wire Gage Standards Used in United States, Mining Engineers' Handbook, 1941, page 41-19

1

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¹Error for gauge 2 fractional value in original, value was 17/16

1.1 American or Brown & Sharpe

Gauge	Size	Gauge	Size
0 000	0.46	18	0.040303
000	0.40964	19	0.03589
00	0.3648	20	0.031961
0	0.32486	21	0.028462
1	0.2893	22	0.025347
2	0.25763	23	0.022571
3	0.22942	24	0.0201
4	0.20431	25	0.0179
5	0.18194	26	0.01594
6	0.16202	27	0.014195
7	0.14428	28	0.012641
8	0.12849	29	0.011257
9	0.11443	30	0.010025
10	0.10189	31	0.008928
11	0.090742	32	0.00795
12	0.080808	33	0.00708
13	0.071961	34	0.006304
14	0.064084	35	0.005614
15	0.057068	36	0.005
16	0.05082	37	0.004453
17	0.045257	38	0.003965

Table 2: American or Brown & Sharpe from Mining Engineers' Handbook

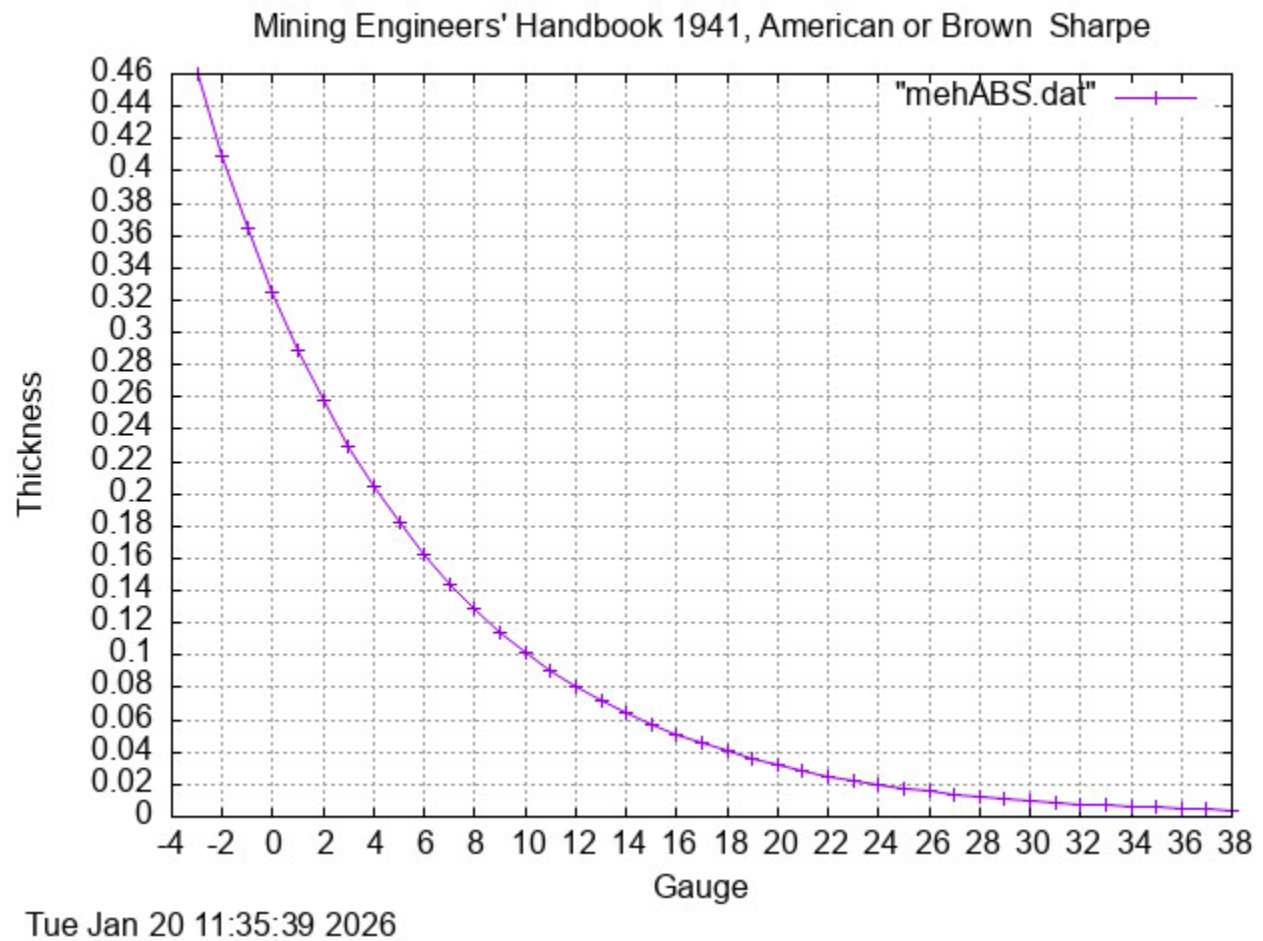
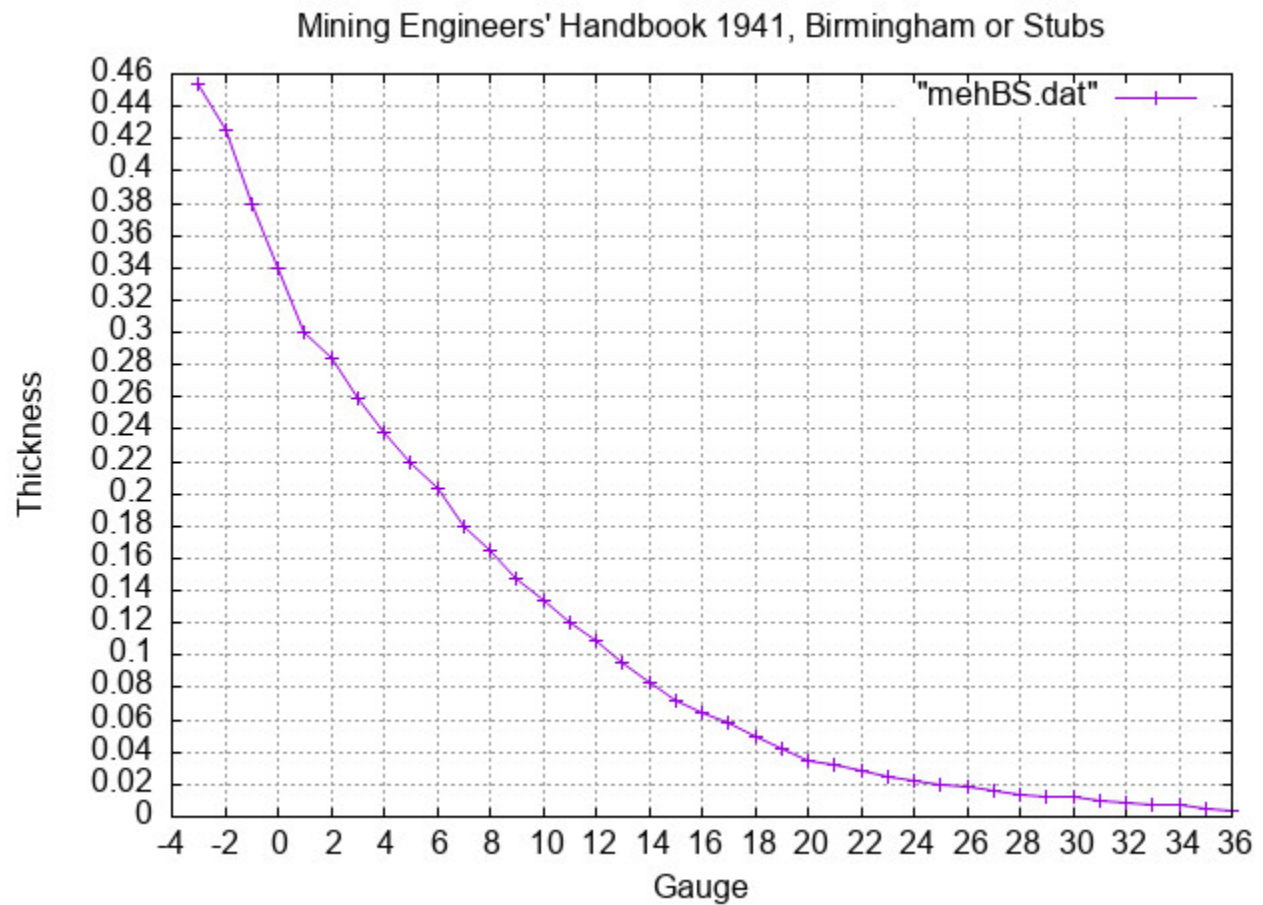


Figure 1: American or Brown & Sharpe

1.2 Birmingham or Stubs

Gauge	Size	Gauge	Size
0 000	0.454	17	0.058
000	0.425	18	0.049
00	0.38	19	0.042
0	0.34	20	0.035
1	0.3	21	0.032
2	0.284	22	0.028
3	0.259	23	0.025
4	0.238	24	0.022
5	0.22	25	0.02
6	0.203	26	0.018
7	0.18	27	0.016
8	0.165	28	0.014
9	0.148	29	0.013
10	0.134	30	0.012
12	0.12	31	0.01
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 3: Birmingham or Stubs from Mining Engineers' Handbook



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Figure 2: Birmingham or Stubs

1.3 Imperial Wire Gage

Gauge	Size	Gauge	Size
000 000	0.464	17	0.056
00 000	0.432	18	0.048
0 000	0.400	19	0.040
000	0.372	20	0.036
00	0.348	21	0.032
0	0.324	22	0.028
1	0.300	23	0.024
2	0.276	24	0.022
3	0.252	25	0.020
4	0.232	26	0.018
5	0.212	27	0.0164
6	0.192	28	0.0149
7	0.176	29	0.0136
8	0.160	30	0.0124
9	0.144	31	0.0116
10	0.128	32	0.0108
11	0.116	33	0.0100
12	0.104	34	0.0092
13	0.092	35	0.0084
14	0.080	36	0.0076
15	0.072	37	0.0068
16	0.064	38	0.0060

Table 4: Imperial Wire Gage from Mining Engineers' Handbook

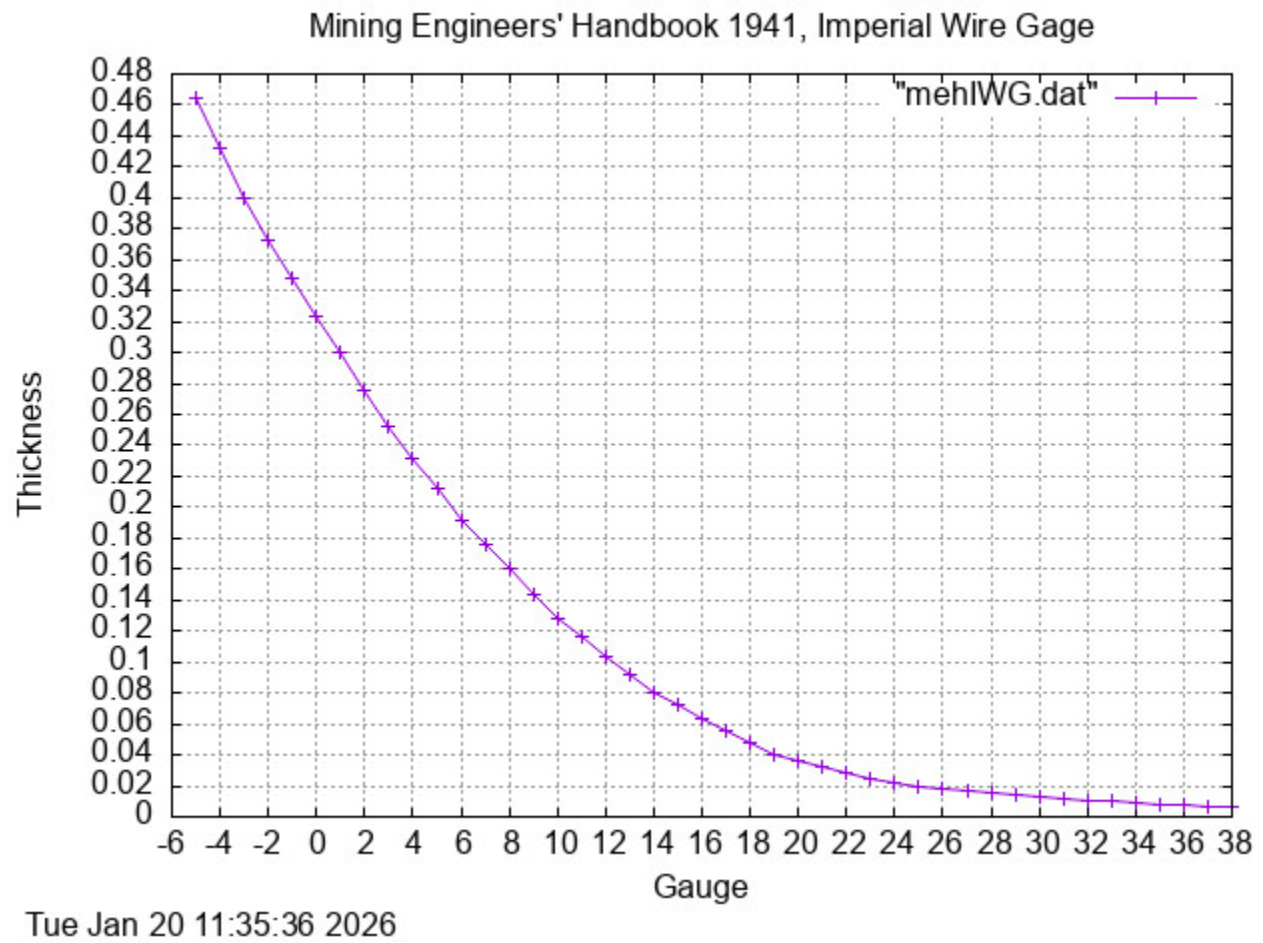


Figure 3: Imperial Wire Gage

1.4 Washburn & Moen Mfg Co

Gauge	Size	Gauge	Size
0 000	0.3938	17	0.0540
000	0.3625	18	0.0475
00	0.3310	19	0.0410
0	0.3065	20	0.0348
1	0.2830	21	0.03175
2	0.2625	22	0.0286
3	0.2437	23	0.0258
4	0.2253	24	0.0230
5	0.2070	25	0.0204
6	0.1920	26	0.0181
7	0.1770	27	0.0173
8	0.1620	28	0.0162
9	0.1483	29	0.0150
10	0.1350	30	0.0140
11	0.1205	31	0.0132
12	0.1055	32	0.0128
13	0.0915	33	0.0118
14	0.0800	34	0.0104
15	0.0720	35	0.0095
16	0.0625	36	0.0090

Table 5: Washburn & Moen Mfg Co from Mining Engineers' Handbook

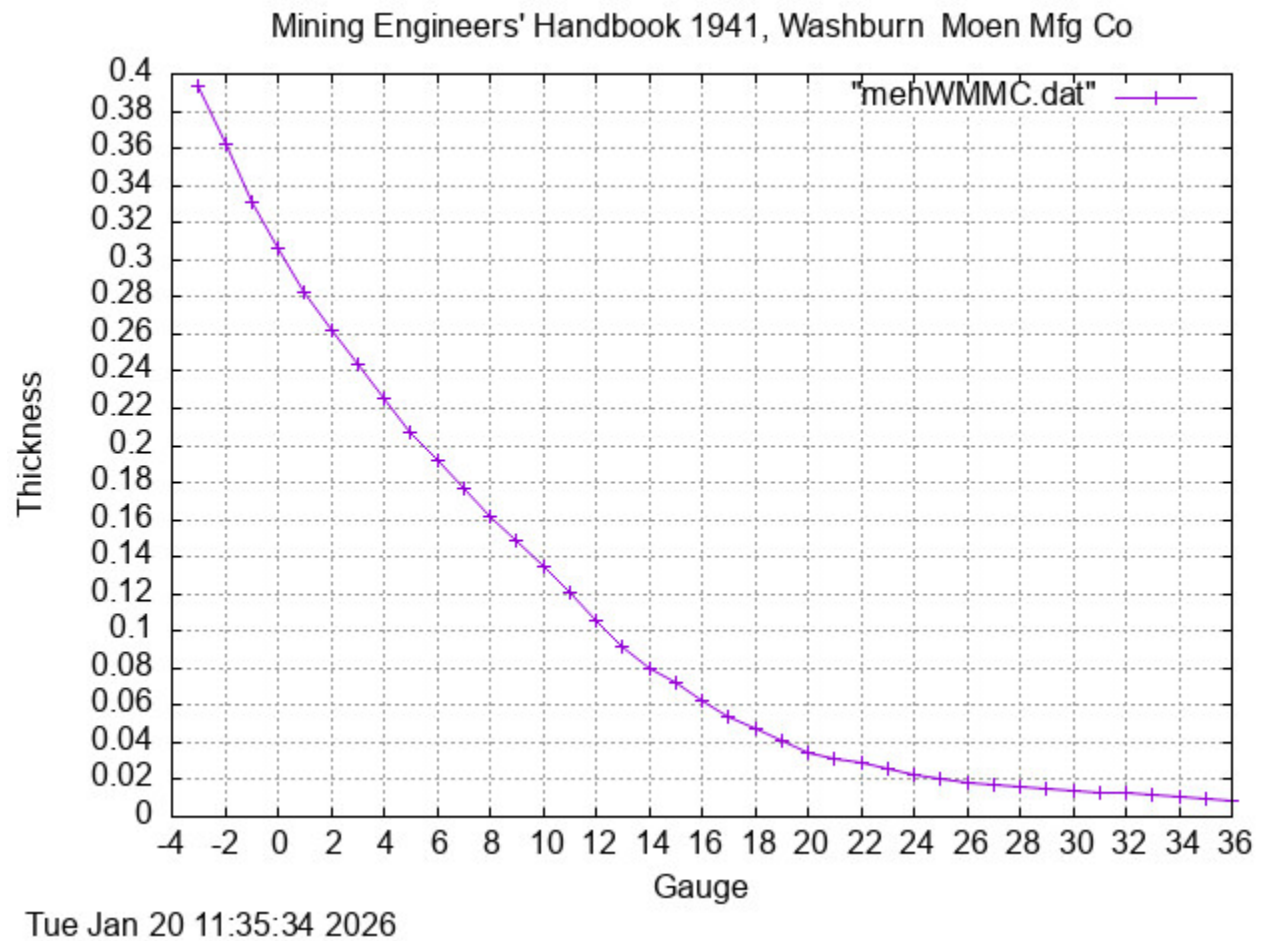


Figure 4: Washburn & Moen Mfg Co

1.5 Stubbs Steel Wire Gage

Gauge	Size	Gauge	Size
1	0.227	20	0.161
2	0.219	21	0.157
3	0.212	22	0.155
4	0.207	23	0.153
5	0.204	24	0.151
6	0.201	25	0.148
7	0.199	26	0.146
8	0.197	27	0.143
9	0.194	28	0.139
10	0.191	29	0.134
11	0.188	30	0.127
12	0.185	31	0.120
13	0.182	32	0.115
14	0.180	33	0.112
15	0.178	34	0.110
16	0.175	35	0.108
17	0.172	36	0.106
18	0.168	37	0.103
19	0.164	38	0.101

Table 6: Stubbs Steel Wire Gage from Mining Engineers' Handbook

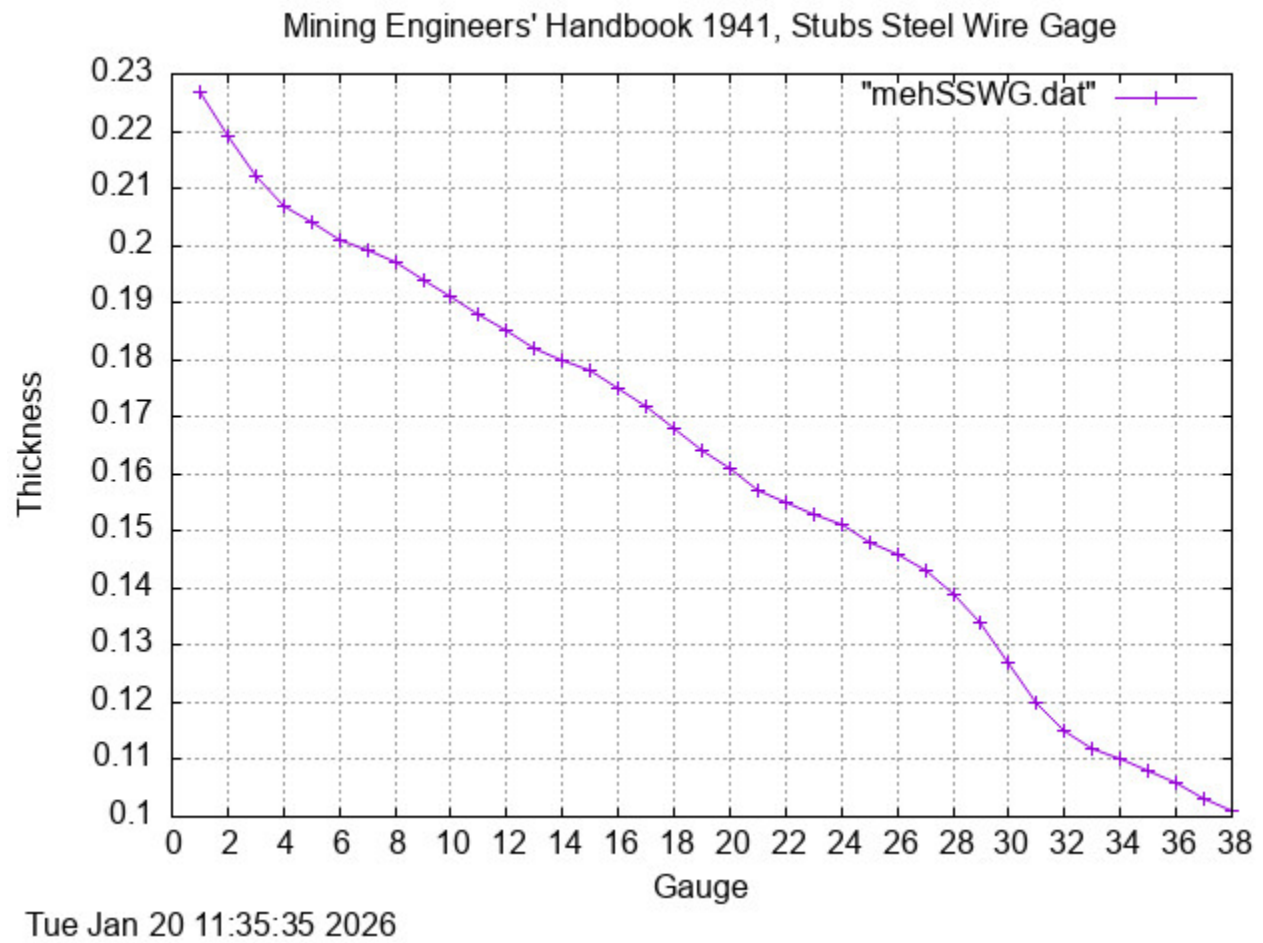


Figure 5: Stubbs Steel Wire Gage

1.6 U.S. Stand. for Sheets and Plate

Gauge	Size	Size	Gauge	Size	Size
0 000 000	0.50	1/2	17	0.05625	9/160
000 000	0.46875	15/32	18	0.05	1/20
00 000	0.4375	7/16	19	0.04375	7/160
0 000	0.40625	13/32	20	0.0365	3/80
000	0.375	3/8	21	0.034375	11/320
00	0.34375	11/32	22	0.03125	1/32
0	0.3125	5/16	23	0.028125	9/320
1	0.28125	9/32	24	0.025	1/40
2	0.265625	17/64*	25	0.021825	7/320
3	0.25	1/4	26	0.01875	3/160
4	0.234375	15/64	27	0.0171875	11/640
5	0.21875	7/32	28	0.015625	1/64
6	0.203125	13/64	29	0.0140625	9/640
7	0.1875	3/16	30	0.0125	1/80
8	0.171875	11/64	31	0.010109375	1/640
9	0.15625	5/32	32	0.01015625	15/1280
10	0.140625	9/64	33	0.009375	3/320
11	0.125	1/8	34	0.00859375	11/1280
12	0.109375	7/64	35	0.0078125	5/640
13	0.09375	3/32	36	0.00703125	9/1280
14	0.078125	5/64	37	0.006640625	17/2560
15	0.0703125	9/128	38	0.00625	1/160
16	0.0625	1/16			

Table 7: U.S. Stand. for Sheets and Plate, Approx thickness, fractions of in. from Mining Engineers' Handbook

2

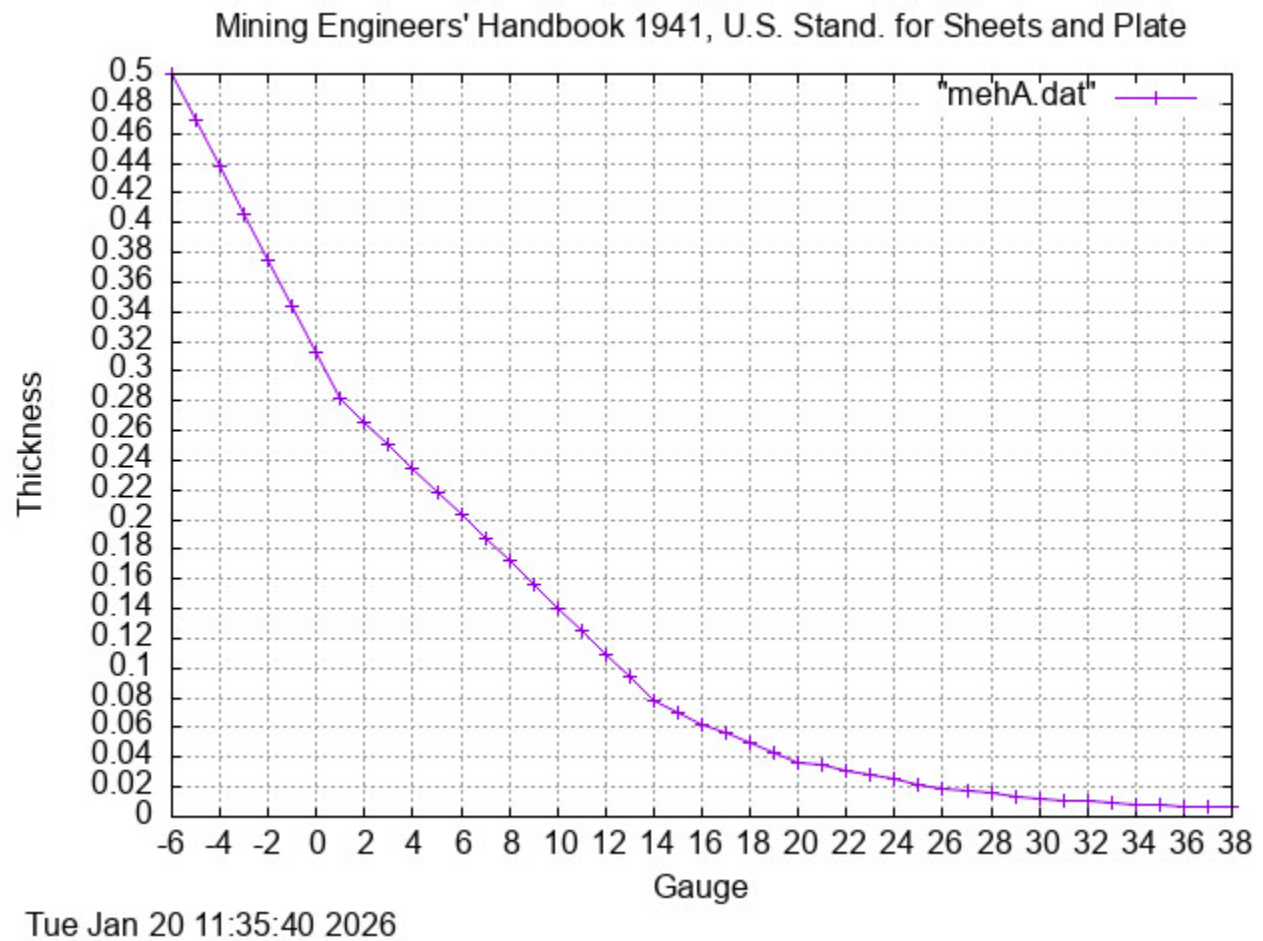


Figure 6: U.S. Stand. for Sheets and Plate, Approx thickness, fractions of in.

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