

Table B-13 Properties of Standard Steel Pipe (U.S. Customary Units)

Dimensions				Properties				
Nominal Diam. <i>d</i> (in.)	Outside Diam. <i>do</i> (in.)	Inside Diam. <i>di</i> (in.)	Wall Thickness <i>t</i> (in.)	Weight <i>w</i> (lb/ft)	<i>A</i> (in. ²)	<i>I</i> (in. ⁴)	<i>S</i> (in. ³)	<i>r</i> (in.)
Standard Weight								
1/4	0.840	0.622	0.109	0.85	0.250	0.017	0.041	0.26
1/2	1.050	0.824	0.113	0.13	0.333	0.037	0.071	0.33
1	1.315	1.049	0.133	1.68	0.494	0.087	0.133	0.42
1 1/2	1.660	1.380	0.140	2.27	0.669	0.195	0.235	0.54
2	1.900	1.610	0.145	2.72	0.799	0.310	0.326	0.62
2 1/2	2.375	2.067	0.154	3.65	1.075	0.666	0.561	0.79
3	2.875	2.469	0.203	5.79	1.704	1.530	1.064	0.95
3 1/2	3.500	3.068	0.216	7.58	2.228	3.017	1.724	1.16
4	4.000	3.548	0.226	9.11	2.680	4.787	2.39	1.34
5	4.500	4.026	0.237	10.79	3.174	7.233	3.21	1.51
6	5.563	5.047	0.258	14.62	4.300	15.16	5.45	1.88
8	6.625	6.065	0.280	18.97	5.581	28.14	8.50	2.25
10	8.625	7.981	0.322	28.55	8.399	72.49	16.81	2.94
12	10.750	10.020	0.365	40.48	11.91	160.7	29.9	3.67
12	12.750	12.000	0.375	49.56	14.58	279.3	43.8	4.38
Extra Strong								
1 1/2	1.900	1.500	0.200	3.63	1.068	0.391	0.412	0.61
2	2.375	1.939	0.218	5.02	1.477	0.868	0.731	0.77
2 1/2	2.875	2.323	0.276	7.66	2.254	1.924	1.338	0.92
3	3.500	2.900	0.300	10.25	3.016	3.894	2.23	1.14
4	4.500	3.826	0.337	14.98	4.407	9.610	4.27	1.48
6	6.625	5.761	0.432	28.57	8.405	40.49	12.22	2.20
Double Extra Strong								
1 1/2	1.900	1.100	0.400	6.41	1.885	0.568	0.564	0.55
2	2.375	1.503	0.436	9.03	2.656	1.311	1.104	0.70
2 1/2	2.875	1.771	0.552	13.69	4.028	2.871	1.997	0.84
3	3.500	2.300	0.600	18.58	5.466	5.993	3.42	1.05
4	4.500	3.152	0.674	27.54	8.101	15.28	6.79	1.37
6	6.625	4.897	0.864	53.16	15.64	66.33	20.0	2.06