

Steel Pipe Weight Chart

Theoretical weight of carbon steel pipe (kg per metre and lb per foot) · computed from ASME B36.10 dimensions at density 7.85 g/cm³

Weight per metre (kg/m)

NPS	OD (mm)	STD	XS	160	XXS
1/8	10.3	0.37	0.47		
1/4	13.7	0.63	0.80		
3/8	17.1	0.84	1.10		
1/2	21.3	1.27	1.62		1.95
3/4	26.7	1.69	2.20		2.90
1	33.4	2.50	3.24		4.24
1 1/4	42.2	3.39	4.47		5.61
1 1/2	48.3	4.05	5.41		7.25
2	60.3	5.44	7.48		11.11
2 1/2	73.0	8.63	11.41		14.92
3	88.9	11.29	15.27		21.35
3 1/2	101.6	13.57	18.63		
4	114.3	16.07	22.32	33.54	41.03
5	141.3	21.77	30.97	49.11	57.43
6	168.3	28.26	42.56		67.56
8	219.1	42.55	64.64	100.92	111.27
10	273.1	60.31	96.01	155.15	172.33
12	323.9	79.73	132.08	208.14	238.76
14	355.6	94.55	158.10	253.56	281.70
16	406.4	123.30	203.53	333.19	365.36
18	457.2	155.87	254.67	408.45	459.59
20	508.0	183.42	311.17	508.11	564.81
22	558.8		373.69	600.40	671.99
24	609.6	255.24	441.78	719.63	807.63

Weight per foot (lb/ft)

NPS	OD (in)	STD	XS	160	XXS
1/8	0.405	0.25	0.31		
1/4	0.540	0.43	0.54		
3/8	0.675	0.57	0.74		
1/2	0.840	0.85	1.09		1.31
3/4	1.050	1.13	1.47		1.94
1	1.315	1.68	2.18		2.85
1 1/4	1.660	2.28	3.00		3.77

NPS	OD (in)	STD	XS	160	XXS
1 1/2	1.900	2.72	3.63		4.86
2	2.375	3.65	5.03		7.47
2 1/2	2.875	5.80	7.67		10.03
3	3.500	7.59	10.26		14.34
3 1/2	4.000	9.12	12.52		
4	4.500	10.80	15.00	22.53	27.57
5	5.563	14.62	20.81	33.00	38.59
6	6.625	18.99	28.59		45.39
8	8.625	28.58	43.43	67.80	74.75
10	10.750	40.52	64.50	104.23	115.77
12	12.750	53.56	88.74	139.83	160.40
14	14.000	63.53	106.23	170.37	189.28
16	16.000	82.85	136.76	223.88	245.49
18	18.000	104.73	171.12	274.45	308.81
20	20.000	123.24	209.08	341.41	379.51
22	22.000		251.09	403.42	451.52
24	24.000	171.50	296.84	483.53	542.66

Weights are theoretical, for plain-end pipe with no coating. Actual weight may vary within manufacturing tolerance ($\pm 12.5\%$ on wall thickness is common). To convert kg/m to lb/ft, multiply by 0.67197.

Values are per ASME B36.10 (Welded and Seamless Wrought Steel Pipe). Weights are computed for plain carbon steel (density 7.85 g/cm^3) using the standard formula $\text{kg/m} = 0.02466 \times (D - t) \times t$. This chart is a quick reference only — always verify against the governing standard for critical or code-regulated applications.