

Round Bar

Imperial A582 (T303), A276 (T304 & T316)



Diameter		Theoretical kg/m	T303	T304 I.M	T316	Tolerance
mm	inch					
3.18	1/8	0.062		0003020	0003065	H9
4.76	3/16	0.140		0003022		H9
6.35	1/4	0.248	0002995	0003026	0003067	H9
7.94	5/16	0.388	0002996	0003028	0003068	H9
9.53	3/8	0.559		0003029	0003070	H9
11.11	7/16	0.761	0002999			H9
12.70	1/2	0.994	0003000	0003034	0003075	H9
14.29	9/16	1.258	0003001		0018290	H9
15.88	5/8	1.553	0003002	0003039	0003076	H9
19.05	3/4	2.237	0003003	0003042	0003078	H9
22.23	7/8	3.045			0003080	H11
25.40	1	3.977	0003005	0003048	0003083	H11
28.58	1-1/8	5.034			0003084	H11
31.80	1-1/4	6.215	0003007	0003051	0003085	H11
34.93	1-3/8	7.520		0003052	0003087	H11
38.10	1-1/2	8.949	0003009	0003054	0003088	H11
41.28	1-5/8	10.503			0018293	H11
44.45	1-3/4	12.182		0003056	0003090	H11
50.80	2	15.911	0003011	0003057	0003092	H11
57.15	2-1/4	20.137			0003094	H11
60.33	2-3/8	22.436				H11
63.50	2-1/2	24.860		0003061	0003096	H11
76.20	3	35.799	0003015	0003062	0003097	H11
88.90	3-1/2	48.726			0003099	H11
101.6	4	63.642	0003017			H11

Table 1: Diameter Tolerance of Round Bar

Class	H9	H11
Diameter In mm	9mm	11mm
3 and under	+0, -0.025	+0, -0.060
3 to 6, incl.	+0, -0.030	+0, -0.075
Over 6 to 10, incl.	+0, -0.036	+0, -0.090
Over 10 to 18, incl.	+0, -0.043	+0, -0.110
Over 18 to 30, incl.	+0, -0.052	+0, -0.130
Over 30 to 50, incl.	+0, -0.062	+0, -0.160
Over 50 to 80, incl.	+0, -0.074	+0, -0.190
Over 80 to 120, incl.	+0, -0.087	+0, -0.220

For AISI, ASTM and other tolerances, contact your Wakefield Metals team

Round Bar

Metric A582 (T303), A276 (T304 & T316)



Diameter mm	Theoretical kg/m	T303	T304	T316	Tolerance
4.00	0.099		0003019		H9
5.00	0.154		0003024		H9
6.00	0.222	0002994			H9
10.00	0.617		0003030		H9
12.00	0.888		0003033	0003073	H9
16.00	1.580		0003041		H9
17.00	1.780			0018291	H9
18.00	1.996			0018292	H9
20.00	2.470		0003044		H9
60.00	22.200		0018289		H11

Finish Up to 31.8mm incl.; Cold drawn annealed and polished over 31.8mm; Hot rolled, solution treated, smooth turned
Length From 3.6m to 5m - Ask your Wakefield Metals team for details

Table 1: Diameter Tolerance of Round Bar

Class	H9	H11
Diameter In mm	9mm	11mm
3 and under	+0, -0.025	+0, -0.060
3 to 6, incl.	+0, -0.030	+0, -0.075
Over 6 to 10, incl.	+0, -0.036	+0, -0.090
Over 10 to 18, incl.	+0, -0.043	+0, -0.110
Over 18 to 30, incl.	+0, -0.052	+0, -0.130
Over 30 to 50, incl.	+0, -0.062	+0, -0.160
Over 50 to 80, incl.	+0, -0.074	+0, -0.190
Over 80 to 120, incl.	+0, -0.087	+0, -0.220

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