

Note: the section properties for square and rectangular tube are calculated exclusive of the corner radii.

Shape	Outside Diameter	Decimal Gauge	Nominal Gauge	Lbs/Foot	Yield Strength (psi)	Tensile Strength (psi)	Section Modulus	Moment of Inertia	Radius of Gyration	Area
Round	0.500	0.028	22	0.14127	45,000	48,000	0.00464	0.00116	0.16716	0.04154
Round	0.500	0.035	20	0.17398	45,000	48,000	0.00556	0.00139	0.16486	0.05115
Round	0.500	0.042	19	0.20563	45,000	48,000	0.00639	0.00160	0.16260	0.06046
Round	0.500	0.049	18	0.23623	45,000	48,000	0.00715	0.00179	0.16038	0.06945
Round	0.500	0.058	17	0.27404	45,000	48,000	0.00800	0.00200	0.15760	0.08057
Round	0.500	0.065	16	0.30226	45,000	48,000	0.00859	0.00215	0.15549	0.08886
Round	0.625	0.028	22	0.17869	45,000	48,000	0.00751	0.00235	0.21129	0.05254
Round	0.625	0.035	20	0.22074	45,000	48,000	0.00907	0.00283	0.20895	0.06490
Round	0.625	0.042	19	0.26175	45,000	48,000	0.01052	0.00329	0.20664	0.07696
Round	0.625	0.049	18	0.30171	45,000	48,000	0.01186	0.00370	0.20437	0.08870
Round	0.625	0.058	17	0.35155	45,000	48,000	0.01343	0.00420	0.20150	0.10336
Round	0.625	0.065	16	0.38911	45,000	48,000	0.01454	0.00454	0.19930	0.11440
Round	0.706	0.028	22	0.20293	45,000	48,000	0.00973	0.00343	0.23990	0.05966
Round	0.706	0.035	20	0.25105	45,000	48,000	0.01180	0.00416	0.23754	0.07381
Round	0.706	0.042	19	0.29812	45,000	48,000	0.01374	0.00485	0.23521	0.08765
Round	0.706	0.049	18	0.34414	45,000	48,000	0.01555	0.00549	0.23291	0.10118
Round	0.706	0.058	17	0.40177	45,000	48,000	0.01770	0.00625	0.23000	0.11812
Round	0.706	0.065	16	0.44539	45,000	48,000	0.01925	0.00679	0.22777	0.13095
Round	0.750	0.028	22	0.21610	45,000	48,000	0.01106	0.00415	0.25544	0.06354
Round	0.750	0.035	20	0.26751	45,000	48,000	0.01343	0.00504	0.25307	0.07865
Round	0.750	0.042	19	0.31787	45,000	48,000	0.01567	0.00588	0.25074	0.09346
Round	0.750	0.049	18	0.36719	45,000	48,000	0.01777	0.00666	0.24843	0.10795
Round	0.750	0.058	17	0.42905	45,000	48,000	0.02027	0.00760	0.24550	0.12614
Round	0.750	0.065	16	0.47597	45,000	48,000	0.02208	0.00828	0.24325	0.13994
Round	0.750	0.072	15	0.52184	50,000	55,000	0.02377	0.00891	0.24104	0.15342
Round	0.815	0.028	22	0.23556	45,000	48,000	0.01317	0.00537	0.27840	0.06926
Round	0.815	0.035	20	0.29183	45,000	48,000	0.01604	0.00654	0.27603	0.08580
Round	0.815	0.042	19	0.34706	45,000	48,000	0.01875	0.00764	0.27368	0.10204
Round	0.815	0.049	18	0.40123	45,000	48,000	0.02132	0.00869	0.27136	0.11796
Round	0.815	0.058	17	0.46935	45,000	48,000	0.02440	0.00994	0.26840	0.13799
Round	0.815	0.065	16	0.52113	45,000	48,000	0.02663	0.01085	0.26614	0.15321
Round	0.815	0.072	15	0.57187	50,000	55,000	0.02873	0.01171	0.26390	0.16813
Round	0.815	0.083	14	0.64948	50,000	55,000	0.03178	0.01295	0.26044	0.19095
Round	0.870	0.028	22	0.25200	45,000	48,000	0.01511	0.00657	0.29783	0.07410
Round	0.870	0.035	20	0.31240	45,000	48,000	0.01843	0.00802	0.29545	0.09185
Round	0.870	0.042	19	0.37180	45,000	48,000	0.02158	0.00939	0.29310	0.10930
Round	0.870	0.049	18	0.43000	45,000	48,000	0.02457	0.01069	0.29076	0.12643
Round	0.870	0.058	17	0.50350	45,000	48,000	0.02818	0.01226	0.28780	0.14802
Round	0.870	0.065	16	0.55940	45,000	48,000	0.03082	0.01341	0.28552	0.16445
Round	0.870	0.072	15	0.61420	50,000	55,000	0.03331	0.01449	0.28326	0.18058
Round	0.875	0.028	22	0.25352	45,000	48,000	0.01529	0.00669	0.29960	0.07454
Round	0.875	0.035	20	0.31428	45,000	48,000	0.01866	0.00816	0.29722	0.09240
Round	0.875	0.042	19	0.37400	45,000	48,000	0.02185	0.00956	0.29486	0.10996
Round	0.875	0.049	18	0.43266	45,000	48,000	0.02488	0.01089	0.29253	0.12720

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Shape	Outside Diameter	Decimal Gauge	Nominal Gauge	Lbs/Foot	Yield Strength (psi)	Tensile Strength (psi)	Section Modulus	Moment of Inertia	Radius of Gyration	Area
Round	0.875	0.058	17	0.50655	45,000	48,000	0.02854	0.01249	0.28956	0.14893
Round	0.875	0.065	16	0.56282	45,000	48,000	0.03121	0.01366	0.28728	0.16547
Round	0.875	0.072	15	0.61805	50,000	55,000	0.03374	0.01476	0.28502	0.18171
Round	0.922	0.028	22	0.26759	45,000	48,000	0.01706	0.00787	0.31621	0.07867
Round	0.922	0.035	20	0.33187	45,000	48,000	0.02084	0.00961	0.31382	0.09757
Round	0.922	0.042	19	0.39510	45,000	48,000	0.02444	0.01127	0.31146	0.11616
Round	0.922	0.049	18	0.45728	45,000	48,000	0.02787	0.01285	0.30912	0.13444
Round	0.922	0.058	17	0.53569	45,000	48,000	0.03202	0.01476	0.30614	0.15749
Round	0.922	0.065	16	0.59548	45,000	48,000	0.03506	0.01616	0.30384	0.17507
Round	0.922	0.072	15	0.65422	50,000	55,000	0.03795	0.01749	0.30157	0.19234
Round	0.922	0.083	14	0.74442	50,000	55,000	0.04218	0.01944	0.29806	0.21886
Round	0.980	0.028	22	0.28495	45,000	48,000	0.01938	0.00950	0.33670	0.08378
Round	0.980	0.035	20	0.35357	45,000	48,000	0.02371	0.01162	0.33431	0.10395
Round	0.980	0.042	19	0.42114	45,000	48,000	0.02784	0.01364	0.33194	0.12382
Round	0.980	0.049	18	0.48766	45,000	48,000	0.03178	0.01557	0.32959	0.14337
Round	0.980	0.058	17	0.57165	45,000	48,000	0.03659	0.01793	0.32660	0.16807
Round	0.980	0.065	16	0.63578	45,000	48,000	0.04012	0.01966	0.32429	0.18692
Round	0.980	0.072	15	0.69886	50,000	55,000	0.04348	0.02131	0.32201	0.20547
Round	0.980	0.083	14	0.79588	50,000	55,000	0.04843	0.02373	0.31847	0.23399
Round	0.995	0.028	22	0.28944	45,000	48,000	0.02001	0.00995	0.34200	0.08510
Round	0.995	0.035	20	0.35918	45,000	48,000	0.02448	0.01218	0.33961	0.10560
Round	0.995	0.042	19	0.42787	45,000	48,000	0.02876	0.01431	0.33724	0.12580
Round	0.995	0.049	18	0.49552	45,000	48,000	0.03284	0.01634	0.33489	0.14568
Round	0.995	0.058	17	0.58095	45,000	48,000	0.03782	0.01881	0.33189	0.17080
Round	0.995	0.065	16	0.64621	45,000	48,000	0.04148	0.02064	0.32958	0.18999
Round	0.995	0.072	15	0.71041	50,000	55,000	0.04497	0.02237	0.32730	0.20886
Round	0.995	0.083	14	0.80919	50,000	55,000	0.05012	0.02494	0.32375	0.23790
Round	0.995	0.095	13	0.91399	50,000	55,000	0.05529	0.02751	0.31994	0.26871
Round	1.000	0.028	22	0.29093	45,000	48,000	0.02022	0.01011	0.34377	0.08554
Round	1.000	0.035	20	0.36105	45,000	48,000	0.02474	0.01237	0.34138	0.10615
Round	1.000	0.042	19	0.43012	45,000	48,000	0.02907	0.01453	0.33900	0.12646
Round	1.000	0.049	18	0.49814	45,000	48,000	0.03320	0.01660	0.33665	0.14645
Round	1.000	0.058	17	0.58405	45,000	48,000	0.03823	0.01912	0.33365	0.17171
Round	1.000	0.065	16	0.64968	45,000	48,000	0.04194	0.02097	0.33135	0.19101
Round	1.000	0.072	15	0.71426	50,000	55,000	0.04548	0.02274	0.32906	0.20999
Round	1.000	0.083	14	0.81362	50,000	55,000	0.05069	0.02535	0.32551	0.23921
Round	1.000	0.095	13	0.91907	50,000	55,000	0.05593	0.02796	0.32170	0.27021
Round	1.029	0.028	22	0.29961	45,000	48,000	0.02146	0.01104	0.35402	0.08809
Round	1.029	0.035	20	0.37190	45,000	48,000	0.02628	0.01352	0.35162	0.10934
Round	1.029	0.042	19	0.44314	45,000	48,000	0.03089	0.01589	0.34925	0.13028
Round	1.029	0.049	18	0.51333	45,000	48,000	0.03530	0.01816	0.34689	0.15092
Round	1.029	0.058	17	0.60203	45,000	48,000	0.04068	0.02093	0.34389	0.17700
Round	1.029	0.065	16	0.66983	45,000	48,000	0.04466	0.02298	0.34157	0.19693
Round	1.029	0.072	15	0.73658	50,000	55,000	0.04845	0.02493	0.33928	0.21656

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Shape	Outside Diameter	Decimal Gauge	Nominal Gauge	Lbs/Foot	Yield Strength (psi)	Tensile Strength (psi)	Section Modulus	Moment of Inertia	Radius of Gyration	Area
Round	1.029	0.083	14	0.83935	50,000	55,000	0.05406	0.02781	0.33572	0.24677
Round	1.029	0.095	13	0.94852	50,000	55,000	0.05971	0.03072	0.33190	0.27887
Round	1.050	0.028	22	0.30590	45,000	48,000	0.02238	0.01175	0.36144	0.08994
Round	1.050	0.035	20	0.37976	45,000	48,000	0.02742	0.01439	0.35904	0.11165
Round	1.050	0.042	19	0.45257	45,000	48,000	0.03224	0.01693	0.35667	0.13306
Round	1.050	0.049	18	0.52433	45,000	48,000	0.03686	0.01935	0.35430	0.15415
Round	1.050	0.058	17	0.61506	45,000	48,000	0.04251	0.02232	0.35130	0.18083
Round	1.050	0.065	16	0.68442	45,000	48,000	0.04668	0.02451	0.34898	0.20122
Round	1.050	0.072	15	0.75274	50,000	55,000	0.05067	0.02660	0.34669	0.22131
Round	1.050	0.083	14	0.85799	50,000	55,000	0.05657	0.02970	0.34312	0.25225
Round	1.050	0.095	13	0.96985	50,000	55,000	0.06252	0.03282	0.33929	0.28514
Round	1.125	0.028	22	0.32835	45,000	48,000	0.02583	0.01453	0.38795	0.09654
Round	1.125	0.035	20	0.40782	45,000	48,000	0.03168	0.01782	0.38554	0.11990
Round	1.125	0.042	19	0.48624	45,000	48,000	0.03731	0.02099	0.38316	0.14296
Round	1.125	0.049	18	0.56362	45,000	48,000	0.04272	0.02403	0.38079	0.16570
Round	1.125	0.058	17	0.66156	45,000	48,000	0.04935	0.02776	0.37777	0.19450
Round	1.125	0.065	16	0.73654	45,000	48,000	0.05426	0.03052	0.37544	0.21654
Round	1.125	0.072	15	0.81047	50,000	55,000	0.05898	0.03318	0.37313	0.23828
Round	1.125	0.083	14	0.92453	50,000	55,000	0.06599	0.03712	0.36954	0.27181
Round	1.163	0.035	20	0.42204	45,000	48,000	0.03397	0.01975	0.39897	0.12408
Round	1.163	0.042	19	0.50330	45,000	48,000	0.04002	0.02327	0.39658	0.14797
Round	1.163	0.049	18	0.58352	45,000	48,000	0.04585	0.02666	0.39421	0.17156
Round	1.163	0.058	17	0.68512	45,000	48,000	0.05301	0.03082	0.39119	0.20143
Round	1.163	0.065	16	0.76294	45,000	48,000	0.05833	0.03392	0.38885	0.22431
Round	1.163	0.072	15	0.83972	50,000	55,000	0.06343	0.03689	0.38654	0.24688
Round	1.163	0.083	14	0.95825	50,000	55,000	0.07104	0.04131	0.38294	0.28173
Round	1.163	0.095	13	1.08461	50,000	55,000	0.07879	0.04582	0.37906	0.31887
Round	1.187	0.042	19	0.51410	45,000	48,000	0.04178	0.02480	0.40506	0.15114
Round	1.187	0.049	18	0.59610	45,000	48,000	0.04788	0.02842	0.40269	0.17525
Round	1.187	0.058	17	0.70000	45,000	48,000	0.05539	0.03287	0.39966	0.20580
Round	1.187	0.065	16	0.77960	45,000	48,000	0.06097	0.03618	0.39732	0.22921
Round	1.250	0.035	20	0.45459	45,000	48,000	0.03949	0.02468	0.42971	0.13365
Round	1.250	0.042	19	0.54236	45,000	48,000	0.04659	0.02912	0.42732	0.15946
Round	1.250	0.049	18	0.62909	45,000	48,000	0.05344	0.03340	0.42494	0.18495
Round	1.250	0.058	17	0.73906	45,000	48,000	0.06188	0.03868	0.42190	0.21728
Round	1.250	0.065	16	0.82339	45,000	48,000	0.06818	0.04261	0.41956	0.24208
Round	1.250	0.072	15	0.90668	50,000	55,000	0.07425	0.04640	0.41723	0.26656
Round	1.250	0.083	14	1.03544	50,000	55,000	0.08332	0.05208	0.41361	0.30442
Round	1.250	0.095	13	1.17296	50,000	55,000	0.09262	0.05789	0.40970	0.34485
Round	1.250	0.109	12	1.32950	50,000	55,000	0.10269	0.06418	0.40521	0.39087
Round	1.250	0.120	11	1.44956	50,000	55,000	0.11005	0.06878	0.40173	0.42617
Round	1.250	0.134	10	1.59863	50,000	55,000	0.11874	0.07421	0.39737	0.47000
Round	1.290	0.042	19	0.56032	45,000	48,000	0.04977	0.03210	0.44145	0.16474
Round	1.290	0.049	18	0.65004	45,000	48,000	0.05712	0.03684	0.43907	0.19111

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Shape	Outside Diameter	Decimal Gauge	Nominal Gauge	Lbs/Foot	Yield Strength (psi)	Tensile Strength (psi)	Section Modulus	Moment of Inertia	Radius of Gyration	Area
Round	1.290	0.058	17	0.76386	45,000	48,000	0.06620	0.04270	0.43603	0.22458
Round	1.290	0.065	16	0.85119	45,000	48,000	0.07297	0.04707	0.43368	0.25025
Round	1.290	0.072	15	0.93747	50,000	55,000	0.07951	0.05128	0.43135	0.27562
Round	1.290	0.083	14	1.07094	50,000	55,000	0.08930	0.05760	0.42772	0.31485
Round	1.290	0.095	13	1.21358	50,000	55,000	0.09935	0.06408	0.42380	0.35679
Round	1.290	0.109	12	1.37611	50,000	55,000	0.11027	0.07113	0.41929	0.40458
Round	1.290	0.120	11	1.50088	50,000	55,000	0.11828	0.07629	0.41580	0.44126
Round	1.290	0.134	10	1.65592	50,000	55,000	0.12776	0.08240	0.41141	0.48684
Round	1.315	0.035	20	0.47891	45,000	48,000	0.04388	0.02885	0.45268	0.14080
Round	1.315	0.042	19	0.57155	45,000	48,000	0.05182	0.03407	0.45029	0.16804
Round	1.315	0.049	18	0.66314	45,000	48,000	0.05949	0.03911	0.44790	0.19496
Round	1.315	0.058	17	0.77936	45,000	48,000	0.06897	0.04534	0.44486	0.22913
Round	1.315	0.065	16	0.86856	45,000	48,000	0.07605	0.05000	0.44251	0.25536
Round	1.315	0.072	15	0.95671	50,000	55,000	0.08289	0.05450	0.44017	0.28127
Round	1.315	0.083	14	1.09312	50,000	55,000	0.09314	0.06124	0.43653	0.32138
Round	1.315	0.095	13	1.23897	50,000	55,000	0.10368	0.06817	0.43261	0.36426
Round	1.315	0.109	12	1.40524	50,000	55,000	0.11515	0.07571	0.42809	0.41314
Round	1.315	0.120	11	1.53295	50,000	55,000	0.12357	0.08125	0.42459	0.45069
Round	1.315	0.134	10	1.69174	50,000	55,000	0.13356	0.08782	0.42020	0.49737
Round	1.375	0.035	20	0.50136	40,000	45,000	0.04815	0.03310	0.47389	0.14740
Round	1.375	0.042	19	0.59849	40,000	45,000	0.05689	0.03911	0.47149	0.17596
Round	1.375	0.049	18	0.69457	40,000	45,000	0.06536	0.04494	0.46910	0.20420
Round	1.375	0.058	17	0.81656	40,000	45,000	0.07584	0.05214	0.46605	0.24007
Round	1.375	0.065	16	0.91025	40,000	45,000	0.08369	0.05754	0.46369	0.26761
Round	1.375	0.072	15	1.00289	50,000	55,000	0.09128	0.06276	0.46135	0.29485
Round	1.375	0.083	14	1.14635	50,000	55,000	0.10270	0.07060	0.45770	0.33703
Round	1.500	0.035	20	0.54813	40,000	45,000	0.05767	0.04325	0.51807	0.16115
Round	1.500	0.042	19	0.65461	40,000	45,000	0.06823	0.05117	0.51566	0.19246
Round	1.500	0.049	18	0.76004	40,000	45,000	0.07849	0.05887	0.51326	0.22345
Round	1.500	0.058	17	0.89406	40,000	45,000	0.09123	0.06842	0.51020	0.26286
Round	1.500	0.065	16	0.99711	40,000	45,000	0.10080	0.07560	0.50783	0.29315
Round	1.500	0.072	15	1.09910	50,000	55,000	0.11009	0.08256	0.50548	0.32314
Round	1.500	0.083	14	1.25726	50,000	55,000	0.12410	0.09308	0.50181	0.36963
Round	1.500	0.095	13	1.42685	50,000	55,000	0.13863	0.10397	0.49784	0.41949
Round	1.500	0.109	12	1.62081	50,000	55,000	0.15459	0.11594	0.49326	0.47652
Round	1.500	0.120	11	1.77026	50,000	55,000	0.16642	0.12481	0.48971	0.52046
Round	1.500	0.134	10	1.95674	50,000	55,000	0.18060	0.13545	0.48524	0.57528
Round	1.510	0.035	20	0.55187	40,000	45,000	0.05847	0.04414	0.52160	0.16225
Round	1.510	0.042	19	0.65910	40,000	45,000	0.06918	0.05223	0.51919	0.19378
Round	1.510	0.049	18	0.76528	40,000	45,000	0.07959	0.06009	0.51679	0.22499
Round	1.510	0.058	17	0.90026	40,000	45,000	0.09252	0.06985	0.51373	0.26468
Round	1.510	0.065	16	1.00406	40,000	45,000	0.10224	0.07719	0.51136	0.29519
Round	1.510	0.072	15	1.10680	50,000	55,000	0.11167	0.08431	0.50901	0.32540
Round	1.510	0.083	14	1.26613	50,000	55,000	0.12590	0.09506	0.50534	0.37224

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Note: the section properties for square and rectangular tube are calculated exclusive of the corner radii.

Shape	Outside Diameter	Decimal Gauge	Nominal Gauge	Lbs/Foot	Yield Strength (psi)	Tensile Strength (psi)	Section Modulus	Moment of Inertia	Radius of Gyration	Area
Round	1.510	0.095	13	1.43700	50,000	55,000	0.14066	0.10620	0.50137	0.42248
Round	1.510	0.109	12	1.63246	50,000	55,000	0.15689	0.11845	0.49679	0.47994
Round	1.510	0.120	11	1.78309	50,000	55,000	0.16892	0.12753	0.49323	0.52423
Round	1.510	0.134	10	1.97107	50,000	55,000	0.18335	0.13843	0.48876	0.57949
Round	1.625	0.035	20	0.59489	40,000	45,000	0.06805	0.05529	0.56225	0.17490
Round	1.625	0.042	19	0.71073	40,000	45,000	0.08060	0.06549	0.55983	0.20896
Round	1.625	0.049	18	0.82552	40,000	45,000	0.09282	0.07541	0.55743	0.24270
Round	1.625	0.058	17	0.97157	40,000	45,000	0.10804	0.08778	0.55436	0.28564
Round	1.625	0.065	16	1.08397	40,000	45,000	0.11951	0.09710	0.55198	0.31869
Round	1.625	0.072	15	1.19531	50,000	55,000	0.13066	0.10616	0.54962	0.35142
Round	1.625	0.083	14	1.36817	50,000	55,000	0.14755	0.11988	0.54593	0.40224
Round	1.625	0.095	13	1.55379	50,000	55,000	0.16513	0.13417	0.54194	0.45681
Round	1.625	0.109	12	1.76646	50,000	55,000	0.18455	0.14995	0.53733	0.51934
Round	1.625	0.120	11	1.93061	50,000	55,000	0.19902	0.16170	0.53375	0.56760
Round	1.625	0.134	10	2.13580	50,000	55,000	0.21646	0.17587	0.52923	0.62792
Round	1.638	0.042	19	0.71657	40,000	45,000	0.08195	0.06712	0.56443	0.21067
Round	1.638	0.049	18	0.83233	40,000	45,000	0.09438	0.07730	0.56202	0.24471
Round	1.638	0.058	17	0.97963	40,000	45,000	0.10987	0.08998	0.55895	0.28801
Round	1.638	0.065	16	1.09300	40,000	45,000	0.12154	0.09954	0.55657	0.32134
Round	1.638	0.072	15	1.20532	50,000	55,000	0.13290	0.10884	0.55421	0.35436
Round	1.638	0.083	14	1.37971	50,000	55,000	0.15010	0.12294	0.55052	0.40563
Round	1.638	0.095	13	1.56699	50,000	55,000	0.16802	0.13761	0.54653	0.46070
Round	1.638	0.109	12	1.78161	50,000	55,000	0.18782	0.15382	0.54192	0.52379
Round	1.638	0.120	11	1.94729	50,000	55,000	0.20258	0.16591	0.53833	0.57250
Round	1.638	0.134	10	2.15442	50,000	55,000	0.22038	0.18049	0.53381	0.63340
Round	1.660	0.035	20	0.60799	40,000	45,000	0.07111	0.05902	0.57462	0.17875
Round	1.660	0.042	19	0.72645	40,000	45,000	0.08425	0.06993	0.57220	0.21358
Round	1.660	0.049	18	0.84385	40,000	45,000	0.09705	0.08055	0.56980	0.24809
Round	1.660	0.058	17	0.99327	40,000	45,000	0.11300	0.09379	0.56672	0.29202
Round	1.660	0.065	16	1.10829	40,000	45,000	0.12503	0.10377	0.56434	0.32584
Round	1.660	0.072	15	1.22225	50,000	55,000	0.13673	0.11349	0.56198	0.35934
Round	1.660	0.083	14	1.39922	50,000	55,000	0.15448	0.12822	0.55828	0.41137
Round	1.660	0.095	13	1.58934	50,000	55,000	0.17296	0.14356	0.55429	0.46726
Round	1.660	0.109	12	1.80724	50,000	55,000	0.19342	0.16054	0.54967	0.53133
Round	1.660	0.120	11	1.97551	50,000	55,000	0.20867	0.17320	0.54608	0.58080
Round	1.660	0.134	10	2.18593	50,000	55,000	0.22709	0.18848	0.54156	0.64266
Round	1.690	0.065	16	1.12913	40,000	45,000	0.12986	0.10973	0.57494	0.33196
Round	1.690	0.072	15	1.24534	50,000	55,000	0.14205	0.12003	0.57257	0.36613
Round	1.690	0.083	14	1.42584	50,000	55,000	0.16055	0.13566	0.56888	0.41920
Round	1.690	0.095	13	1.61980	50,000	55,000	0.17983	0.15196	0.56488	0.47622
Round	1.690	0.109	12	1.84220	50,000	55,000	0.20119	0.17000	0.56025	0.54161
Round	1.690	0.120	11	2.01400	50,000	55,000	0.21713	0.18348	0.55666	0.59211
Round	1.690	0.134	10	2.22891	50,000	55,000	0.23641	0.19976	0.55213	0.65530
Round	1.740	0.035	20	0.63792	40,000	45,000	0.07836	0.06817	0.60289	0.18755

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Note: the section properties for square and rectangular tube are calculated exclusive of the corner radii.

Shape	Outside Diameter	Decimal Gauge	Nominal Gauge	Lbs/Foot	Yield Strength (psi)	Tensile Strength (psi)	Section Modulus	Moment of Inertia	Radius of Gyration	Area
Round	1.740	0.042	19	0.76236	40,000	45,000	0.09289	0.08082	0.60047	0.22414
Round	1.740	0.049	18	0.88576	40,000	45,000	0.10706	0.09315	0.59807	0.26041
Round	1.740	0.058	17	1.04287	40,000	45,000	0.12476	0.10854	0.59499	0.30660
Round	1.740	0.065	16	1.16387	40,000	45,000	0.13812	0.12017	0.59260	0.34218
Round	1.740	0.072	15	1.28383	50,000	55,000	0.15114	0.13149	0.59023	0.37744
Round	1.740	0.083	14	1.47021	50,000	55,000	0.17092	0.14870	0.58653	0.43224
Round	1.740	0.095	13	1.67058	50,000	55,000	0.19157	0.16666	0.58252	0.49115
Round	1.740	0.109	12	1.90046	50,000	55,000	0.21447	0.18659	0.57789	0.55873
Round	1.740	0.120	11	2.07814	50,000	55,000	0.23161	0.20150	0.57428	0.61097
Round	1.740	0.134	10	2.30053	50,000	55,000	0.25235	0.21955	0.56974	0.67636
Round	1.750	0.035	20	0.64166	40,000	45,000	0.07929	0.06938	0.60643	0.18865
Round	1.750	0.042	19	0.76685	40,000	45,000	0.09400	0.08225	0.60401	0.22546
Round	1.750	0.049	18	0.89100	40,000	45,000	0.10835	0.09481	0.60160	0.26195
Round	1.750	0.058	17	1.04907	40,000	45,000	0.12627	0.11049	0.59852	0.30843
Round	1.750	0.065	16	1.17082	40,000	45,000	0.13980	0.12233	0.59614	0.34422
Round	1.750	0.072	15	1.29152	50,000	55,000	0.15299	0.13387	0.59377	0.37971
Round	1.750	0.083	14	1.47908	50,000	55,000	0.17303	0.15140	0.59006	0.43485
Round	1.875	0.065	16	1.25768	40,000	45,000	0.16170	0.15159	0.64030	0.36976
Round	1.875	0.072	15	1.38773	50,000	55,000	0.17710	0.16603	0.63792	0.40799
Round	1.875	0.083	14	1.58999	50,000	55,000	0.20055	0.18802	0.63420	0.46746
Round	1.875	0.095	13	1.80768	50,000	55,000	0.22512	0.21105	0.63017	0.53146
Round	1.875	0.109	12	2.05776	50,000	55,000	0.25249	0.23671	0.62552	0.60498
Round	1.875	0.120	11	2.25131	50,000	55,000	0.27305	0.25598	0.62189	0.66189
Round	1.875	0.134	10	2.49391	50,000	55,000	0.29803	0.27941	0.61731	0.73321
Round	1.883	0.042	19	0.82657	40,000	45,000	0.10939	0.10299	0.65101	0.24301
Round	1.883	0.049	18	0.96066	40,000	45,000	0.12620	0.11882	0.64860	0.28244
Round	1.883	0.058	17	1.13154	40,000	45,000	0.14723	0.13862	0.64551	0.33267
Round	1.883	0.065	16	1.26324	40,000	45,000	0.16316	0.15361	0.64312	0.37139
Round	1.883	0.072	15	1.39389	50,000	55,000	0.17870	0.16825	0.64074	0.40980
Round	1.883	0.083	14	1.59709	50,000	55,000	0.20238	0.19054	0.63703	0.46954
Round	1.883	0.095	13	1.81580	50,000	55,000	0.22720	0.21391	0.63300	0.53385
Round	1.883	0.109	12	2.06708	50,000	55,000	0.25484	0.23994	0.62834	0.60772
Round	1.883	0.120	11	2.26158	50,000	55,000	0.27561	0.25949	0.62471	0.66490
Round	1.883	0.134	10	2.50537	50,000	55,000	0.30086	0.28326	0.62013	0.73658
Round	1.883	0.148	9	2.74498	50,000	55,000	0.32483	0.30583	0.61560	0.80702
Round	1.900	0.035	20	0.69779	40,000	45,000	0.09391	0.08921	0.65945	0.20515
Round	1.900	0.042	19	0.83420	40,000	45,000	0.11144	0.10587	0.65702	0.24526
Round	1.900	0.049	18	0.96957	40,000	45,000	0.12858	0.12215	0.65461	0.28505
Round	1.900	0.058	17	1.14208	40,000	45,000	0.15003	0.14253	0.65152	0.33577
Round	1.900	0.065	16	1.27505	40,000	45,000	0.16627	0.15796	0.64913	0.37486
Round	1.900	0.072	15	1.40698	50,000	55,000	0.18213	0.17302	0.64675	0.41365
Round	1.900	0.083	14	1.61217	50,000	55,000	0.20630	0.19598	0.64303	0.47398
Round	1.900	0.095	13	1.83307	50,000	55,000	0.23164	0.22005	0.63900	0.53892
Round	1.900	0.109	12	2.08689	50,000	55,000	0.25988	0.24688	0.63434	0.61355

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Note: the section properties for square and rectangular tube are calculated exclusive of the corner radii.

Shape	Outside Diameter	Decimal Gauge	Nominal Gauge	Lbs/Foot	Yield Strength (psi)	Tensile Strength (psi)	Section Modulus	Moment of Inertia	Radius of Gyration	Area
Round	1.900	0.120	11	2.28338	50,000	55,000	0.28110	0.26704	0.63071	0.67131
Round	1.900	0.134	10	2.52972	50,000	55,000	0.30691	0.29157	0.62612	0.74374
Round	1.900	0.148	9	2.77187	50,000	55,000	0.33144	0.31486	0.62159	0.81493
Round	1.900	0.165	8	3.06028	50,000	55,000	0.35953	0.34156	0.61614	0.89972
Round	2.000	0.035	20	0.73520	40,000	45,000	0.10434	0.10434	0.69479	0.21615
Round	2.000	0.042	19	0.87910	40,000	45,000	0.12390	0.12390	0.69237	0.25846
Round	2.000	0.049	18	1.02195	40,000	45,000	0.14303	0.14303	0.68995	0.30045
Round	2.000	0.058	17	1.20408	40,000	45,000	0.16701	0.16701	0.68686	0.35400
Round	2.000	0.065	16	1.34454	40,000	45,000	0.18519	0.18519	0.68446	0.39529
Round	2.000	0.072	15	1.48394	50,000	55,000	0.20297	0.20297	0.68208	0.43628
Round	2.000	0.083	14	1.70090	50,000	55,000	0.23011	0.23011	0.67835	0.50006
Round	2.000	0.095	13	1.93462	50,000	55,000	0.25862	0.25862	0.67431	0.56878
Round	2.000	0.109	12	2.20341	50,000	55,000	0.29048	0.29048	0.66963	0.64780
Round	2.000	0.120	11	2.41166	50,000	55,000	0.31448	0.31448	0.66598	0.70903
Round	2.000	0.134	10	2.67297	50,000	55,000	0.34375	0.34375	0.66138	0.78585
Round	2.000	0.148	9	2.93009	50,000	55,000	0.37164	0.37164	0.65682	0.86144
Round	2.197	0	19	0.96760	40,000	45,000	0.15036	0.16517	0.76200	0.28446
Round	2.197	0.049	18	1.12514	40,000	45,000	0.17374	0.19085	0.75958	0.33079
Round	2.197	0.058	17	1.32622	40,000	45,000	0.20312	0.22313	0.75647	0.38991
Round	2.197	0.065	16	1.48142	40,000	45,000	0.22545	0.24766	0.75407	0.43554
Round	2.197	0.072	15	1.63557	50,000	55,000	0.24733	0.27169	0.75168	0.48086
Round	2.197	0.083	14	1.87569	50,000	55,000	0.28082	0.30848	0.74793	0.55145
Round	2.197	0.095	13	2.13469	50,000	55,000	0.31614	0.34728	0.74387	0.62760
Round	2.197	0.109	12	2.43296	50,000	55,000	0.35577	0.39082	0.73917	0.71529
Round	2.197	0.120	11	2.66438	50,000	55,000	0.38575	0.42375	0.73550	0.78333
Round	2.197	0.134	10	2.95517	50,000	55,000	0.42248	0.46409	0.73086	0.86882
Round	2.197	0.148	9	3.24176	50,000	55,000	0.45763	0.50271	0.72627	0.95308
Round	2.360	0.049	18	1.21053	40,000	45,000	0.20141	0.23766	0.81719	0.35589
Round	2.360	0.058	17	1.42729	40,000	45,000	0.23567	0.27809	0.81408	0.41962
Round	2.360	0.065	16	1.59468	40,000	45,000	0.26176	0.30887	0.81167	0.46884
Round	2.360	0.072	15	1.76103	50,000	55,000	0.28736	0.33908	0.80927	0.51774
Round	2.360	0.083	14	2.02031	50,000	55,000	0.32661	0.38540	0.80552	0.59397
Round	2.360	0.095	13	2.30022	50,000	55,000	0.36811	0.43437	0.80144	0.67626
Round	2.360	0.109	12	2.62289	50,000	55,000	0.41482	0.48949	0.79672	0.77113
Round	2.360	0.120	11	2.87347	50,000	55,000	0.45026	0.53130	0.79304	0.84480
Round	2.360	0.134	10	3.18866	50,000	55,000	0.49379	0.58267	0.78838	0.93746
Round	2.360	0.148	9	3.49965	50,000	55,000	0.53561	0.63202	0.78375	1.02890
Round	2.375	0.042	19	1.04747	40,000	45,000	0.17647	0.20956	0.82491	0.30796
Round	2.375	0.049	18	1.21838	40,000	45,000	0.20406	0.24232	0.82249	0.35820
Round	2.375	0.058	17	1.43659	40,000	45,000	0.23879	0.28356	0.81938	0.42236
Round	2.375	0.065	16	1.60510	40,000	45,000	0.26524	0.31497	0.81697	0.47190
Round	2.375	0.072	15	1.77257	50,000	55,000	0.29119	0.34579	0.81457	0.52114
Round	2.375	0.083	14	2.03362	50,000	55,000	0.33100	0.39306	0.81082	0.59788
Round	2.375	0.095	13	2.31545	50,000	55,000	0.37309	0.44305	0.80674	0.68074

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Nov. 2001

Note: the section properties for square and rectangular tube are calculated exclusive of the corner radii.

Shape	Outside Diameter	Decimal Gauge	Nominal Gauge	Lbs/Foot	Yield Strength (psi)	Tensile Strength (psi)	Section Modulus	Moment of Inertia	Radius of Gyration	Area
Round	2.375	0.109	12	2.64037	50,000	55,000	0.42048	0.49932	0.80202	0.77627
Round	2.375	0.120	11	2.89271	50,000	55,000	0.45644	0.54203	0.79833	0.85046
Round	2.375	0.134	10	3.21014	50,000	55,000	0.50063	0.59450	0.79367	0.94378
Round	2.375	0.148	9	3.52338	50,000	55,000	0.54309	0.64492	0.78904	1.03587
Round	2.375	0.165	8	3.89811	50,000	55,000	0.59240	0.70347	0.78347	1.14604
Round	2.375	0.180	7	4.22362	50,000	55,000	0.63391	0.75276	0.77860	1.24174
Round	2.375	0.203	6	4.71339	50,000	55,000	0.69405	0.82418	0.77121	1.38574
Round	2.375	0.220	5	5.06810	50,000	55,000	0.73588	0.87385	0.76581	1.49003
Round	2.500	0.049	18	1.28386	40,000	45,000	0.22681	0.28351	0.86667	0.37745
Round	2.500	0.058	17	1.51409	40,000	45,000	0.26557	0.33196	0.86356	0.44514
Round	2.500	0.065	16	1.69196	40,000	45,000	0.29511	0.36889	0.86115	0.49744
Round	2.500	0.072	15	1.86878	50,000	55,000	0.32413	0.40516	0.85874	0.54942
Round	2.500	0.083	14	2.14453	50,000	55,000	0.36871	0.46088	0.85498	0.63049
Round	2.500	0.095	13	2.44240	50,000	55,000	0.41592	0.51990	0.85090	0.71806
Round	2.500	0.109	12	2.78602	50,000	55,000	0.46917	0.58646	0.84616	0.81909
Round	2.500	0.120	11	3.05306	50,000	55,000	0.50965	0.63707	0.84246	0.89760
Round	2.500	0.134	10	3.38920	50,000	55,000	0.55950	0.69938	0.83779	0.99642
Round	2.500	0.148	9	3.72115	50,000	55,000	0.60751	0.75938	0.83314	1.09402
Round	2.750	0.072	15	2.06120	50,000	55,000	0.39532	0.54356	0.94709	0.60599
Round	2.750	0.083	14	2.36635	50,000	55,000	0.45023	0.61907	0.94331	0.69571
Round	2.750	0.095	13	2.69629	50,000	55,000	0.50856	0.69927	0.93922	0.79271
Round	2.750	0.109	12	3.07732	50,000	55,000	0.57457	0.79003	0.93446	0.90473
Round	2.750	0.120	11	3.37376	50,000	55,000	0.62491	0.85926	0.93075	0.99189
Round	2.750	0.134	10	3.74732	50,000	55,000	0.68711	0.94477	0.92604	1.10171
Round	2.750	0.148	9	4.11668	50,000	55,000	0.74723	1.02744	0.92137	1.21030
Round	2.857	0.072	15	2.14356	50,000	55,000	0.42795	0.61132	0.98490	0.63021
Round	2.857	0.083	14	2.46129	50,000	55,000	0.48762	0.69656	0.98112	0.72362
Round	2.857	0.095	13	2.80495	50,000	55,000	0.55106	0.78719	0.97702	0.82465
Round	2.857	0.109	12	3.20200	50,000	55,000	0.62295	0.88988	0.97226	0.94139
Round	2.857	0.120	11	3.51102	50,000	55,000	0.67785	0.96830	0.96853	1.03224
Round	2.857	0.134	10	3.90059	50,000	55,000	0.74574	1.06529	0.96382	1.14677
Round	2.857	0.148	9	4.28596	50,000	55,000	0.81147	1.15919	0.95913	1.26007
Round	2.857	0.165	8	4.74828	50,000	55,000	0.88844	1.26914	0.95348	1.39599
Round	2.857	0.180	7	5.15108	50,000	55,000	0.95382	1.36254	0.94853	1.51442
Round	2.875	0.072	15	2.15741	50,000	55,000	0.43356	0.62325	0.99126	0.63428
Round	2.875	0.083	14	2.47726	50,000	55,000	0.49405	0.71020	0.98749	0.72831
Round	2.875	0.095	13	2.82323	50,000	55,000	0.55838	0.80267	0.98338	0.83003
Round	2.875	0.109	12	3.22297	50,000	55,000	0.63128	0.90746	0.97862	0.94755
Round	2.875	0.120	11	3.53411	50,000	55,000	0.68696	0.98751	0.97489	1.03903
Round	2.875	0.134	10	3.92637	50,000	55,000	0.75584	1.08653	0.97018	1.15435
Round	2.875	0.148	9	4.31444	50,000	55,000	0.82254	1.18240	0.96549	1.26844
Round	2.875	0.165	8	4.78003	50,000	55,000	0.90066	1.29470	0.95983	1.40533
Round	2.875	0.180	7	5.18572	50,000	55,000	0.96704	1.39012	0.95488	1.52460
Round	2.875	0.203	6	5.79843	50,000	55,000	1.06431	1.52995	0.94735	1.70474

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Note: the section properties for square and rectangular tube are calculated exclusive of the corner radii.

Shape	Outside Diameter	Decimal Gauge	Nominal Gauge	Lbs/Foot	Yield Strength (psi)	Tensile Strength (psi)	Section Modulus	Moment of Inertia	Radius of Gyration	Area
Round	2.875	0.220	5	6.24403	50,000	55,000	1.13280	1.62839	0.94183	1.83574
Round	3.000	0.072	15	2.25362	50,000	55,000	0.47357	0.71036	1.03544	0.66256
Round	3.000	0.083	14	2.58817	50,000	55,000	0.53991	0.80986	1.03166	0.76092
Round	3.000	0.095	13	2.95017	50,000	55,000	0.61053	0.91579	1.02755	0.86735
Round	3.000	0.109	12	3.36862	50,000	55,000	0.69067	1.03600	1.02277	0.99037
Round	3.000	0.120	11	3.69446	50,000	55,000	0.75196	1.12793	1.01904	1.08617
Round	3.000	0.134	10	4.10543	50,000	55,000	0.82787	1.24180	1.01432	1.20700
Round	3.000	0.148	9	4.51221	50,000	55,000	0.90148	1.35223	1.00962	1.32659
Round	3.000	0.165	8	5.00052	50,000	55,000	0.98785	1.48178	1.00395	1.47015
Round	3.000	0.180	7	5.42624	50,000	55,000	1.06137	1.59205	0.99898	1.59531
Round	3.000	0.203	6	6.06969	50,000	55,000	1.16933	1.75399	0.99142	1.78449
Round	3.000	0.220	5	6.53800	50,000	55,000	1.24551	1.86827	0.98588	1.92217
Round	3.476	0.072	15	2.61999	50,000	55,000	0.64212	1.11601	1.20368	0.77028
Round	3.476	0.083	14	3.01051	50,000	55,000	0.73318	1.27427	1.19988	0.88509
Round	3.476	0.095	13	3.43357	50,000	55,000	0.83047	1.44336	1.19575	1.00947
Round	3.476	0.109	12	3.92326	50,000	55,000	0.94131	1.63600	1.19095	1.15344
Round	3.476	0.120	11	4.30508	50,000	55,000	1.02642	1.78391	1.18720	1.26569
Round	3.476	0.134	10	4.78728	50,000	55,000	1.13225	1.96786	1.18244	1.40746
Round	3.476	0.148	9	5.26530	50,000	55,000	1.23535	2.14705	1.17770	1.54800
Round	3.476	0.165	8	5.84011	50,000	55,000	1.35694	2.35836	1.17198	1.71699
Round	3.476	0.180	7	6.34216	50,000	55,000	1.46100	2.53921	1.16696	1.86459
Round	3.476	0.203	6	7.10264	50,000	55,000	1.61482	2.80655	1.15932	2.08817
Round	3.476	0.220	5	7.65746	50,000	55,000	1.72415	2.99658	1.15371	2.25129
Round	3.500	0.065	16	2.38680	40,000	45,000	0.59154	1.03519	1.21458	0.70172
Round	3.500	0.072	15	2.63846	40,000	45,000	0.65130	1.13977	1.21216	0.77571
Round	3.500	0.083	14	3.03180	45,000	48,000	0.74371	1.30149	1.20836	0.89135
Round	3.500	0.095	13	3.45795	45,000	48,000	0.84245	1.47429	1.20423	1.01664
Round	3.500	0.109	12	3.95123	45,000	48,000	0.95497	1.67121	1.19943	1.16166
Round	3.500	0.120	11	4.33586	45,000	48,000	1.04139	1.82243	1.19568	1.27474
Round	3.500	0.134	10	4.82166	45,000	48,000	1.14886	2.01051	1.19092	1.41757
Round	3.500	0.148	9	5.30327	45,000	48,000	1.25358	2.19377	1.18618	1.55916
Round	3.500	0.165	8	5.88244	45,000	48,000	1.37710	2.40993	1.18046	1.72944
Round	3.500	0.180	7	6.38834	45,000	48,000	1.48284	2.59497	1.17544	1.87817
Round	3.500	0.203	6	7.15472	45,000	48,000	1.63919	2.86858	1.16779	2.10349
Round	3.500	0.220	5	7.71390	45,000	48,000	1.75036	3.06313	1.16218	2.26789
Round	3.971	0.083	14	3.44971	45,000	48,000	0.96551	1.91702	1.37483	1.01421
Round	3.971	0.095	13	3.93627	45,000	48,000	1.09506	2.17424	1.37068	1.15726
Round	3.971	0.109	12	4.50004	45,000	48,000	1.24311	2.46820	1.36587	1.32301
Round	3.971	0.120	11	4.94006	45,000	48,000	1.35714	2.69460	1.36210	1.45238
Round	3.971	0.134	10	5.49635	45,000	48,000	1.49938	2.97702	1.35731	1.61593
Round	3.971	0.148	9	6.04845	45,000	48,000	1.63843	3.25309	1.35255	1.77824
Round	3.971	0.165	8	6.71321	45,000	48,000	1.80305	3.57995	1.34679	1.97368
Round	3.971	0.180	7	7.29464	45,000	48,000	1.94452	3.86085	1.34173	2.14462
Round	3.971	0.203	6	8.17682	45,000	48,000	2.15471	4.27818	1.33402	2.40398

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Note: the section properties for square and rectangular tube are calculated exclusive of the corner radii.

Shape	Outside Diameter	Decimal Gauge	Nominal Gauge	Lbs/Foot	Yield Strength (psi)	Tensile Strength (psi)	Section Modulus	Moment of Inertia	Radius of Gyration	Area
Round	3.971	0.220	5	8.82160	45,000	48,000	2.30493	4.57643	1.32836	2.59355
Round	4.000	0.072	15	3.02330	40,000	45,000	0.85730	1.71461	1.38889	0.88885
Round	4.000	0.083	14	3.47544	45,000	48,000	0.98011	1.96022	1.38508	1.02178
Round	4.000	0.095	13	3.96572	45,000	48,000	1.11169	2.22339	1.38093	1.16592
Round	4.000	0.109	12	4.53383	45,000	48,000	1.26210	2.52419	1.37612	1.33295
Round	4.000	0.120	11	4.97726	45,000	48,000	1.37795	2.75590	1.37234	1.46331
Round	4.000	0.134	10	5.53789	45,000	48,000	1.52249	3.04497	1.36756	1.62814
Round	4.000	0.148	9	6.09433	45,000	48,000	1.66381	3.32761	1.36279	1.79173
Round	4.000	0.165	8	6.76436	45,000	48,000	1.83115	3.66231	1.35703	1.98872
Round	4.000	0.180	7	7.35044	45,000	48,000	1.97500	3.95000	1.35197	2.16103
Round	4.000	0.203	6	8.23976	45,000	48,000	2.18876	4.37753	1.34426	2.42249
Round	4.000	0.220	5	8.88980	45,000	48,000	2.34158	4.68315	1.33860	2.61360
Round	4.466	0.072	15	3.38200	40,000	45,000	1.07476	2.39994	1.55361	0.99430
Round	4.466	0.083	14	3.88890	45,000	48,000	1.22979	2.74612	1.54979	1.14334
Round	4.466	0.095	13	4.43897	45,000	48,000	1.39622	3.11776	1.54563	1.30506
Round	4.466	0.109	12	5.07682	45,000	48,000	1.58688	3.54350	1.54080	1.49258
Round	4.466	0.120	11	5.57505	45,000	48,000	1.73406	3.87216	1.53702	1.63906
Round	4.466	0.134	10	6.20542	45,000	48,000	1.91809	4.28309	1.53221	1.82439
Round	4.466	0.148	9	6.83159	45,000	48,000	2.09847	4.68588	1.52743	2.00849
Round	4.466	0.165	8	7.58632	45,000	48,000	2.31267	5.16419	1.52164	2.23038
Round	4.466	0.180	7	8.24712	45,000	48,000	2.49734	5.57655	1.51656	2.42465
Round	4.466	0.203	6	9.25101	45,000	48,000	2.77274	6.19152	1.50880	2.71979
Round	4.466	0.220	5	9.98574	45,000	48,000	2.97036	6.63282	1.50309	2.93581
Round	4.500	0.072	15	3.40810	40,000	45,000	1.09159	2.45607	1.56563	1.00199
Round	4.500	0.083	14	3.91907	45,000	48,000	1.24912	2.81051	1.56181	1.15221
Round	4.500	0.095	13	4.47350	45,000	48,000	1.41825	3.19106	1.55765	1.31521
Round	4.500	0.109	12	5.11644	45,000	48,000	1.61203	3.62707	1.55282	1.50423
Round	4.500	0.120	11	5.61866	45,000	48,000	1.76165	3.96370	1.54903	1.65189
Round	4.500	0.134	10	6.25412	45,000	48,000	1.94874	4.38466	1.54423	1.83871
Round	4.500	0.148	9	6.88539	45,000	48,000	2.13216	4.79735	1.53944	2.02430
Round	4.500	0.165	8	7.64629	45,000	48,000	2.35001	5.28751	1.53365	2.24801
Round	4.500	0.180	7	8.31254	45,000	48,000	2.53785	5.71016	1.52856	2.44389
Round	4.500	0.203	6	9.32479	45,000	48,000	2.81805	6.34062	1.52080	2.74149
Round	4.500	0.220	5	10.06570	45,000	48,000	3.01918	6.79315	1.51510	2.95931
Round	5.000	0.095	13	4.98127	45,000	48,000	1.76212	4.40530	1.73438	1.46449
Round	5.000	0.109	12	5.69904	45,000	48,000	2.00478	5.01195	1.72953	1.67552
Round	5.000	0.120	11	6.26006	45,000	48,000	2.19248	5.48119	1.72574	1.84046
Round	5.000	0.134	10	6.97035	45,000	48,000	2.42763	6.06907	1.72092	2.04928
Round	5.000	0.148	9	7.67645	45,000	48,000	2.65864	6.64660	1.71611	2.25687
Round	5.000	0.165	8	8.52821	45,000	48,000	2.93366	7.33416	1.71030	2.50729
Round	5.000	0.180	7	9.27464	45,000	48,000	3.17140	7.92849	1.70519	2.72674

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Nov. 2001

Note: the section properties for square and rectangular tube are calculated exclusive of the corner radii.

Shape	Outside Diameter	Decimal Gauge	Nominal Gauge	Lbs/Foot	Yield Strength (psi)	Tensile Strength (psi)	Section Modulus	Moment of Inertia	Radius of Gyration	Area
Square	0.625	0.035	20	0.28104	45,000	48,000	0.01538	0.00480	0.24131	0.08260
Square	0.625	0.042	19	0.33325	45,000	48,000	0.01784	0.00557	0.23864	0.09794
Square	0.625	0.049	18	0.38412	45,000	48,000	0.02012	0.00628	0.23602	0.11289
Square	0.625	0.058	17	0.44757	45,000	48,000	0.02279	0.00712	0.23270	0.13154
Square	0.625	0.065	16	0.49540	45,000	48,000	0.02468	0.00771	0.23017	0.14560
Square	0.709	0.035	20	0.32082	45,000	48,000	0.02021	0.00716	0.27553	0.09436
Square	0.709	0.042	19	0.38099	45,000	48,000	0.02353	0.00834	0.27284	0.11206
Square	0.709	0.049	18	0.43982	45,000	48,000	0.02664	0.00944	0.27019	0.12936
Square	0.750	0.035	20	0.34059	45,000	48,000	0.02280	0.00855	0.29225	0.10010
Square	0.750	0.042	19	0.40470	45,000	48,000	0.02659	0.00997	0.28955	0.11894
Square	0.750	0.049	18	0.46749	45,000	48,000	0.03015	0.01131	0.28688	0.13739
Square	0.750	0.058	17	0.54625	45,000	48,000	0.03441	0.01290	0.28350	0.16054
Square	0.750	0.065	16	0.60598	45,000	48,000	0.03748	0.01405	0.28091	0.17810
Square	0.750	0.072	15	0.66438	50,000	55,000	0.04034	0.01513	0.27835	0.19526
Square	0.750	0.083	14	0.75346	50,000	55,000	0.04446	0.01667	0.27440	0.22144
Square	0.813	0.035	20	0.37060	45,000	48,000	0.02709	0.01101	0.31794	0.10892
Square	0.813	0.042	19	0.44071	45,000	48,000	0.03166	0.01287	0.31523	0.12952
Square	0.813	0.049	18	0.50950	45,000	48,000	0.03598	0.01463	0.31254	0.14974
Square	0.813	0.058	17	0.59598	45,000	48,000	0.04118	0.01674	0.30914	0.17516
Square	0.813	0.065	16	0.66171	45,000	48,000	0.04495	0.01827	0.30652	0.19448
Square	0.813	0.072	15	0.72612	50,000	55,000	0.04850	0.01971	0.30394	0.21340
Square	0.813	0.083	14	0.82463	50,000	55,000	0.05364	0.02180	0.29994	0.24236
Square	0.875	0.035	20	0.40013	45,000	48,000	0.03167	0.01385	0.34323	0.11760
Square	0.875	0.042	19	0.47615	45,000	48,000	0.03709	0.01623	0.34050	0.13994
Square	0.875	0.049	18	0.55085	45,000	48,000	0.04223	0.01847	0.33781	0.16189
Square	0.875	0.058	17	0.64492	45,000	48,000	0.04844	0.02119	0.33438	0.18954
Square	0.875	0.065	16	0.71656	45,000	48,000	0.05298	0.02318	0.33174	0.21060
Square	0.875	0.072	15	0.78687	50,000	55,000	0.05726	0.02505	0.32914	0.23126
Square	0.875	0.083	14	0.89466	50,000	55,000	0.06352	0.02779	0.32510	0.26294
Square	1.000	0.035	20	0.45967	45,000	48,000	0.04199	0.02100	0.39422	0.13510
Square	1.000	0.042	19	0.54761	45,000	48,000	0.04933	0.02467	0.39148	0.16094
Square	1.000	0.049	18	0.63421	45,000	48,000	0.05634	0.02817	0.38876	0.18639
Square	1.000	0.058	17	0.74359	45,000	48,000	0.06489	0.03244	0.38530	0.21854
Square	1.000	0.065	16	0.82714	45,000	48,000	0.07118	0.03559	0.38263	0.24310
Square	1.000	0.072	15	0.90936	50,000	55,000	0.07718	0.03859	0.37999	0.26726
Square	1.000	0.083	14	1.03587	50,000	55,000	0.08603	0.04302	0.37589	0.30444
Square	1.000	0.095	13	1.17012	50,000	55,000	0.09492	0.04746	0.37149	0.34390
Square	1.000	0.109	12	1.32179	50,000	55,000	0.10434	0.05217	0.36646	0.38847
Square	1.250	0.035	20	0.57876	45,000	48,000	0.06702	0.04189	0.49623	0.17010
Square	1.250	0.042	19	0.69051	45,000	48,000	0.07907	0.04942	0.49346	0.20294
Square	1.250	0.049	18	0.80093	45,000	48,000	0.09069	0.05668	0.49071	0.23539
Square	1.250	0.058	17	0.94094	45,000	48,000	0.10503	0.06564	0.48721	0.27654
Square	1.250	0.065	16	1.04831	45,000	48,000	0.11572	0.07232	0.48450	0.30810

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Note: the section properties for square and rectangular tube are calculated exclusive of the corner radii.

Shape	Outside Diameter	Decimal Gauge	Nominal Gauge	Lbs/Foot	Yield Strength (psi)	Tensile Strength (psi)	Section Modulus	Moment of Inertia	Radius of Gyration	Area
Square	1.250	0.072	15	1.15435	50,000	55,000	0.12601	0.07876	0.48181	0.33926
Square	1.250	0.083	14	1.31828	50,000	55,000	0.14142	0.08839	0.47763	0.38744
Square	1.250	0.095	13	1.49336	50,000	55,000	0.15719	0.09824	0.47312	0.43890
Square	1.250	0.109	12	1.69266	50,000	55,000	0.17428	0.10893	0.46793	0.49747
Square	1.500	0.035	20	0.69785	45,000	48,000	0.09788	0.07341	0.59825	0.20510
Square	1.500	0.042	19	0.83342	45,000	48,000	0.11581	0.08685	0.59547	0.24494
Square	1.500	0.049	18	0.96765	45,000	48,000	0.13321	0.09991	0.59271	0.28439
Square	1.500	0.058	17	1.13829	45,000	48,000	0.15484	0.11613	0.58917	0.33454
Square	1.500	0.065	16	1.26947	45,000	48,000	0.17108	0.12831	0.58644	0.37310
Square	1.500	0.072	15	1.39933	50,000	55,000	0.18684	0.14013	0.58372	0.41126
Square	1.500	0.083	14	1.60069	50,000	55,000	0.21063	0.15797	0.57948	0.47044
Square	1.500	0.095	13	1.81660	50,000	55,000	0.23528	0.17646	0.57490	0.53390
Square	1.500	0.109	12	2.06353	50,000	55,000	0.26237	0.19678	0.56961	0.60647
Square	1.500	0.120	11	2.25382	50,000	55,000	0.28245	0.21184	0.56551	0.66240
Square	1.625	0.065	16	1.38005	45,000	48,000	0.20283	0.16480	0.63742	0.40560
Square	1.625	0.072	15	1.52182	50,000	55,000	0.22175	0.18017	0.63469	0.44726
Square	1.625	0.083	14	1.74189	50,000	55,000	0.25042	0.20347	0.63043	0.51194
Square	1.625	0.095	13	1.97821	50,000	55,000	0.28026	0.22771	0.62582	0.58140
Square	1.625	0.109	12	2.24897	50,000	55,000	0.31322	0.25449	0.62050	0.66097
Square	1.625	0.120	11	2.45797	50,000	55,000	0.33778	0.27444	0.61636	0.72240
Square	1.750	0.072	15	1.64431	50,000	55,000	0.25966	0.22720	0.68567	0.48326
Square	1.750	0.083	14	1.88309	50,000	55,000	0.29367	0.25696	0.68139	0.55344
Square	1.750	0.095	13	2.13983	50,000	55,000	0.32919	0.28804	0.67676	0.62890
Square	1.750	0.109	12	2.43441	50,000	55,000	0.36861	0.32253	0.67141	0.71547
Square	1.750	0.120	11	2.66212	50,000	55,000	0.39810	0.34834	0.66725	0.78240
Square	1.875	0.072	15	1.76550	50,000	55,000	0.30057	0.28179	0.73666	0.51926
Square	1.875	0.083	14	2.02281	50,000	55,000	0.34038	0.31910	0.73237	0.59494
Square	1.875	0.095	13	2.29976	50,000	55,000	0.38208	0.35820	0.72772	0.67640
Square	1.875	0.109	12	2.61792	50,000	55,000	0.42854	0.40175	0.72234	0.76998
Square	1.875	0.120	11	2.86416	50,000	55,000	0.46342	0.43446	0.71815	0.84240
Square	2.000	0.065	16	1.71180	45,000	48,000	0.31431	0.31431	0.79041	0.50310
Square	2.000	0.072	15	1.88929	50,000	55,000	0.34448	0.34448	0.78765	0.55526
Square	2.000	0.083	14	2.16550	50,000	55,000	0.39054	0.39054	0.78335	0.63644
Square	2.000	0.095	13	2.46307	50,000	55,000	0.43893	0.43893	0.77868	0.72390
Square	2.000	0.109	12	2.80528	50,000	55,000	0.49300	0.49300	0.77328	0.82448
Square	2.000	0.120	11	3.07042	50,000	55,000	0.53374	0.53374	0.76907	0.90240
Square	2.000	0.134	10	3.40310	50,000	55,000	0.58342	0.58342	0.76375	1.00018
Square	2.000	0.148	9	3.73045	50,000	55,000	0.63075	0.63075	0.75849	1.09638
Square	2.000	0.165	8	4.12077	50,000	55,000	0.68517	0.68517	0.75216	1.21110
Square	2.000	0.180	7	4.45864	50,000	55,000	0.73050	0.73050	0.74664	1.31040
Square	2.000	0.203	6	4.98480	50,000	55,000	0.79535	0.79535	0.73829	1.45916
Square	2.000	0.220	5	5.32970	50,000	55,000	0.83980	0.83980	0.73221	1.56640
Square	2.188	0.134	10	3.74505	50,000	55,000	0.71063	0.77743	0.84032	1.10094
Square	2.250	0.072	15	2.13427	50,000	55,000	0.44130	0.49647	0.88965	0.62726

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Note: the section properties for square and rectangular tube are calculated exclusive of the corner radii.

Shape	Outside Diameter	Decimal Gauge	Nominal Gauge	Lbs/Foot	Yield Strength (psi)	Tensile Strength (psi)	Section Modulus	Moment of Inertia	Radius of Gyration	Area
Square	2.250	0.083	14	2.44791	50,000	55,000	0.50124	0.56390	0.88532	0.71944
Square	2.250	0.095	13	2.78631	50,000	55,000	0.56450	0.63506	0.88063	0.81890
Square	2.250	0.109	12	3.17615	50,000	55,000	0.63556	0.71501	0.87519	0.93348
Square	2.250	0.120	11	3.47872	50,000	55,000	0.68937	0.77554	0.87095	1.02240
Square	2.250	0.134	10	3.85903	50,000	55,000	0.75535	0.84976	0.86558	1.13418
Square	2.250	0.148	9	4.23400	50,000	55,000	0.81858	0.92091	0.86026	1.24438
Square	2.250	0.165	8	4.68220	50,000	55,000	0.89180	1.00328	0.85386	1.37610
Square	2.500	0.072	15	2.37925	50,000	55,000	0.55012	0.68765	0.99166	0.69926
Square	2.500	0.083	14	2.73032	50,000	55,000	0.62578	0.78222	0.98732	0.80244
Square	2.500	0.095	13	3.10954	50,000	55,000	0.70590	0.88238	0.98260	0.91390
Square	2.500	0.109	12	3.54703	50,000	55,000	0.79628	0.99535	0.97714	1.04248
Square	2.500	0.120	11	3.88702	50,000	55,000	0.86499	1.08124	0.97287	1.14240
Square	2.500	0.134	10	4.31497	50,000	55,000	0.94960	1.18699	0.96746	1.26818
Square	2.500	0.148	9	4.73760	50,000	55,000	1.03107	1.28884	0.96210	1.39238
Square	2.500	0.165	8	5.24360	50,000	55,000	1.12592	1.40740	0.95564	1.54110
Square	3.000	0.083	14	3.29513	50,000	55,000	0.91634	1.37451	1.19134	0.96844
Square	3.000	0.095	13	3.75602	50,000	55,000	1.03620	1.55430	1.18660	1.10390
Square	3.000	0.109	12	4.28877	50,000	55,000	1.17221	1.75831	1.18108	1.26048
Square	3.000	0.120	11	4.70362	50,000	55,000	1.27623	1.91435	1.17678	1.38240
Square	3.000	0.134	10	5.22680	50,000	55,000	1.40507	2.10761	1.17132	1.53618
Square	3.000	0.148	9	5.74470	50,000	55,000	1.53002	2.29502	1.16589	1.68838
Square	3.000	0.165	8	6.36640	50,000	55,000	1.67660	2.51490	1.15934	1.87110
Square	4.000	0.083	14	4.42480	50,000	55,000	1.66346	3.32692	1.59947	1.30044
Square	4.000	0.095	13	5.04897	50,000	55,000	1.88679	3.77357	1.59468	1.48390
Square	4.000	0.109	12	5.77226	50,000	55,000	2.14205	4.28410	1.58912	1.69648
Square	4.000	0.120	11	6.33682	50,000	55,000	2.33868	4.67736	1.58476	1.86240
Square	4.000	0.134	10	7.05060	50,000	55,000	2.58399	5.16798	1.57924	2.07218
Square	4.000	0.148	9	7.75900	50,000	55,000	2.82384	5.64768	1.57373	2.28038
Square	4.000	0.165	8	8.61210	50,000	55,000	3.10786	6.21573	1.56708	2.53110

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Note: the section properties for square and rectangular tube are calculated exclusive of the corner radii.

Shape	Outside Length	Outside Height	Decimal Gauge	Nominal Gauge	Lbs/Foot	Yield Strength (psi)	Tensile Strength (psi)	MAJOR AXIS ONLY			Area
								Section Modulus	Moment of Inertia	Radius of Gyration	
Rectangle	0.625	1.125	0.035	20	0.4001	45,000	48,000	0.0353	0.0198	0.4108	0.1176
Rectangle	0.625	1.125	0.042	19	0.4762	45,000	48,000	0.0414	0.0233	0.4080	0.1399
Rectangle	0.625	1.125	0.049	18	0.5509	45,000	48,000	0.0473	0.0266	0.4052	0.1619
Rectangle	0.625	1.125	0.058	17	0.6449	45,000	48,000	0.0544	0.0306	0.4017	0.1895
Rectangle	0.625	1.125	0.065	16	0.7166	45,000	48,000	0.0596	0.0335	0.3990	0.2106
Rectangle	0.750	1.500	0.035	20	0.5192	45,000	48,000	0.0603	0.0452	0.5444	0.1526
Rectangle	0.750	1.500	0.042	19	0.6191	45,000	48,000	0.0712	0.0534	0.5416	0.1819
Rectangle	0.750	1.500	0.049	18	0.7176	45,000	48,000	0.0816	0.0612	0.5387	0.2109
Rectangle	0.750	1.500	0.058	17	0.8423	45,000	48,000	0.0945	0.0709	0.5351	0.2475
Rectangle	0.750	1.500	0.065	16	0.9377	45,000	48,000	0.1041	0.0781	0.5323	0.2756
Rectangle	0.875	1.917	0.035	20	0.6483	45,000	48,000	0.0949	0.0910	0.6911	0.1905
Rectangle	0.875	1.917	0.042	19	0.7740	45,000	48,000	0.1124	0.1077	0.6882	0.2275
Rectangle	0.875	1.917	0.049	18	0.8983	45,000	48,000	0.1293	0.1240	0.6853	0.2640
Rectangle	1.000	1.750	0.035	20	0.6383	45,000	48,000	0.0904	0.0791	0.6495	0.1876
Rectangle	1.000	1.750	0.042	19	0.7620	45,000	48,000	0.1070	0.0936	0.6466	0.2239
Rectangle	1.000	1.750	0.049	18	0.8843	45,000	48,000	0.1231	0.1077	0.6438	0.2599
Rectangle	1.000	1.750	0.058	17	1.0396	45,000	48,000	0.1431	0.1252	0.6402	0.3055
Rectangle	1.000	1.750	0.065	16	1.1589	45,000	48,000	0.1581	0.1384	0.6374	0.3406
Rectangle	1.000	2.000	0.035	20	0.6979	45,000	48,000	0.1095	0.1095	0.7307	0.2051
Rectangle	1.000	2.000	0.042	19	0.8334	45,000	48,000	0.1298	0.1298	0.7278	0.2449
Rectangle	1.000	2.000	0.049	18	0.9677	45,000	48,000	0.1495	0.1495	0.7250	0.2844
Rectangle	1.000	2.000	0.058	17	1.3830	45,000	48,000	0.1740	0.1740	0.7213	0.3345
Rectangle	1.000	2.000	0.065	16	1.2695	45,000	48,000	0.1926	0.1926	0.7184	0.3731
Rectangle	1.000	2.000	0.072	15	1.3993	50,000	55,000	0.2106	0.2106	0.7156	0.4113
Rectangle	1.000	2.000	0.083	14	1.6007	50,000	55,000	0.2379	0.2379	0.7112	0.4704
Rectangle	1.500	2.500	0.049	18	1.3011	45,000	48,000	0.2672	0.3340	0.9346	0.3824
Rectangle	1.500	2.500	0.058	17	1.5330	45,000	48,000	0.3123	0.3904	0.9309	0.4505
Rectangle	1.500	2.500	0.065	16	1.7118	45,000	48,000	0.3467	0.4333	0.9281	0.5031
Rectangle	1.500	2.500	0.072	15	1.8893	50,000	55,000	0.3803	0.4754	0.9253	0.5553
Rectangle	1.500	2.500	0.083	14	2.1655	50,000	55,000	0.4317	0.5397	0.9209	0.6364
Rectangle	1.500	2.500	0.095	13	2.4631	50,000	55,000	0.4860	0.6075	0.9161	0.7239
Rectangle	1.500	2.500	0.109	12	2.8053	50,000	55,000	0.5469	0.6836	0.9105	0.8245
Rectangle	1.500	2.500	0.120	11	3.0704	50,000	55,000	0.5929	0.7411	0.9062	0.9024
Rectangle	1.500	3.000	0.065	16	1.9330	45,000	48,000	0.4507	0.6761	1.0909	0.5681
Rectangle	1.500	3.000	0.072	15	2.1343	50,000	55,000	0.4951	0.7426	1.0881	0.6273
Rectangle	1.500	3.000	0.083	14	2.4479	50,000	55,000	0.5631	0.8447	1.0836	0.7194
Rectangle	1.500	3.000	0.095	13	2.7863	50,000	55,000	0.6352	0.9528	1.0787	0.8189
Rectangle	1.500	3.000	0.109	12	3.1762	50,000	55,000	0.7165	1.0747	1.0730	0.9335
Rectangle	1.500	3.000	0.120	11	3.4787	50,000	55,000	0.7783	1.1674	1.0686	1.0224
Rectangle	1.500	3.000	0.134	10	3.8590	50,000	55,000	0.8543	1.2815	1.0630	1.1342
Rectangle	1.500	3.500	0.049	18	1.6345	45,000	48,000	0.4339	0.7592	1.2572	0.4804
Rectangle	1.500	3.500	0.058	17	1.9277	45,000	48,000	0.5086	0.8900	1.2534	0.5665
Rectangle	1.500	3.500	0.065	16	2.1541	45,000	48,000	0.5657	0.9899	1.2504	0.6331

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Note: the section properties for square and rectangular tube are calculated exclusive of the corner radii.

Shape	Outside Length	Outside Height	Decimal Gauge	Nominal Gauge	Lbs/Foot	Yield Strength (psi)	Tensile Strength (psi)	MAJOR AXIS ONLY			Area
								Section Modulus	Moment of Inertia	Radius of Gyration	
Rectangle	1.500	3.500	0.072	15	2.3792	50,000	55,000	0.6218	1.0882	1.2475	0.6993
Rectangle	1.500	3.500	0.083	14	2.7303	50,000	55,000	0.7084	1.2396	1.2429	0.8024
Rectangle	1.500	3.500	0.095	13	3.1095	50,000	55,000	0.8003	1.4005	1.2379	0.9139
Rectangle	1.500	3.500	0.109	12	3.5470	50,000	55,000	0.9043	1.5826	1.2321	1.0425
Rectangle	1.500	3.500	0.120	11	3.8870	50,000	55,000	0.9837	1.7215	1.2276	1.1424
Rectangle	1.500	3.500	0.134	10	4.3150	50,000	55,000	1.0819	1.8933	1.2218	1.2682
Rectangle	1.625	3.000	0.065	16	1.9883	45,000	48,000	0.4741	0.7111	1.1031	0.5844
Rectangle	1.625	3.000	0.072	15	2.1955	50,000	55,000	0.5208	0.7812	1.1003	0.6453
Rectangle	1.625	3.000	0.083	14	2.5185	50,000	55,000	0.5926	0.8888	1.0958	0.7402
Rectangle	1.625	3.000	0.095	13	2.8671	50,000	55,000	0.6686	1.0029	1.0910	0.8427
Rectangle	1.625	3.000	0.109	12	3.2689	50,000	55,000	0.7545	1.1317	1.0853	0.9607
Rectangle	1.625	3.000	0.120	11	3.5808	50,000	55,000	0.8198	1.2297	1.0809	1.0524
Rectangle	2.000	3.000	0.065	16	2.1541	45,000	48,000	0.5441	0.8161	1.1354	0.6331
Rectangle	2.000	3.000	0.072	15	2.3792	50,000	55,000	0.5980	0.8969	1.1326	0.6993
Rectangle	2.000	3.000	0.083	14	2.7303	50,000	55,000	0.6809	1.0213	1.1282	0.8024
Rectangle	2.000	3.000	0.095	13	3.1095	50,000	55,000	0.7689	1.1533	1.1234	0.9139
Rectangle	2.000	3.000	0.109	12	3.5470	50,000	55,000	0.8684	1.3026	1.1178	1.0425
Rectangle	2.000	3.000	0.120	11	3.8870	50,000	55,000	0.9443	1.4164	1.1135	1.1424
Rectangle	2.000	3.000	0.134	10	4.3150	50,000	55,000	1.0379	1.5569	1.1080	1.2682
Rectangle	2.000	3.000	0.148	9	4.7376	50,000	55,000	1.1284	1.6926	1.1025	1.3924
Rectangle	2.000	3.000	0.165	8	5.2436	50,000	55,000	1.2341	1.8511	1.0960	1.5411
Rectangle	2.000	3.000	0.180	7	5.6835	50,000	55,000	1.3236	1.9854	1.0902	1.6704
Rectangle	2.000	3.000	0.203	6	6.3462	50,000	55,000	1.4543	2.1814	1.0815	1.8652
Rectangle	2.000	3.000	0.220	5	6.8268	50,000	55,000	1.5460	2.3190	1.0751	2.0064
Rectangle	2.000	4.000	0.083	14	3.2951	50,000	55,000	1.0266	2.0533	1.4561	0.9684
Rectangle	2.000	4.000	0.095	13	3.7560	50,000	55,000	1.1623	2.3246	1.4511	1.1039
Rectangle	2.000	4.000	0.109	12	4.2888	50,000	55,000	1.3167	2.6334	1.4454	1.2605
Rectangle	2.000	4.000	0.120	11	4.7036	50,000	55,000	1.4351	2.8703	1.4409	1.3824
Rectangle	2.000	4.000	0.134	10	5.2268	50,000	55,000	1.5822	3.1644	1.4352	1.5362
Rectangle	2.000	4.000	0.148	9	5.7447	50,000	55,000	1.7253	3.4506	1.4296	1.6884
Rectangle	2.000	4.000	0.165	8	6.3664	50,000	55,000	1.8938	3.7875	1.4228	1.8711

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Nov. 2001

Note: the section properties for square and rectangular tube are calculated exclusive of the corner radii.

Shape	Outside Length	Outside Height	Decimal Gauge	Nominal Gauge	Lbs/Foot	Yield Strength (psi)	Tensile Strength (psi)	MINOR AXIS ONLY			Area
								Section Modulus	Moment of Inertia	Radius of Gyration	
Rectangle	0.625	1.125	0.035	20	0.4001	45,000	48,000	0.0251	0.0079	0.2585	0.1176
Rectangle	0.625	1.125	0.042	19	0.4762	45,000	48,000	0.0293	0.0092	0.2557	0.1399
Rectangle	0.625	1.125	0.049	18	0.5509	45,000	48,000	0.0332	0.0104	0.2530	0.1619
Rectangle	0.625	1.125	0.058	17	0.6449	45,000	48,000	0.0378	0.0118	0.2495	0.1895
Rectangle	0.625	1.125	0.065	16	0.7166	45,000	48,000	0.0411	0.0128	0.2468	0.2106
Rectangle	0.750	1.500	0.035	20	0.5192	45,000	48,000	0.0407	0.0153	0.3163	0.1526
Rectangle	0.750	1.500	0.042	19	0.6191	45,000	48,000	0.0477	0.0179	0.3135	0.1819
Rectangle	0.750	1.500	0.049	18	0.7176	45,000	48,000	0.0543	0.0204	0.3106	0.2109
Rectangle	0.750	1.500	0.058	17	0.8423	45,000	48,000	0.0622	0.0233	0.3071	0.2475
Rectangle	0.750	1.500	0.065	16	0.9377	45,000	48,000	0.0681	0.0255	0.3043	0.2756
Rectangle	0.875	1.917	0.035	20	0.6483	45,000	48,000	0.0611	0.0267	0.3745	0.1905
Rectangle	0.875	1.917	0.042	19	0.7740	45,000	48,000	0.0718	0.0314	0.3717	0.2275
Rectangle	0.875	1.917	0.049	18	0.8983	45,000	48,000	0.0821	0.0359	0.3688	0.2640
Rectangle	1.000	1.750	0.035	20	0.6383	45,000	48,000	0.0664	0.0332	0.4208	0.1876
Rectangle	1.000	1.750	0.042	19	0.7620	45,000	48,000	0.0783	0.0391	0.4180	0.2239
Rectangle	1.000	1.750	0.049	18	0.8843	45,000	48,000	0.0896	0.0448	0.4152	0.2599
Rectangle	1.000	1.750	0.058	17	1.0396	45,000	48,000	0.1035	0.0518	0.4116	0.3055
Rectangle	1.000	1.750	0.065	16	1.1589	45,000	48,000	0.1139	0.0569	0.4089	0.3406
Rectangle	1.000	2.000	0.035	20	0.6979	45,000	48,000	0.0746	0.0373	0.4264	0.2051
Rectangle	1.000	2.000	0.042	19	0.8334	45,000	48,000	0.0879	0.0440	0.4236	0.2449
Rectangle	1.000	2.000	0.049	18	0.9677	45,000	48,000	0.1007	0.0503	0.4208	0.2844
Rectangle	1.000	2.000	0.058	17	1.3830	45,000	48,000	0.1164	0.0582	0.4171	0.3345
Rectangle	1.000	2.000	0.065	16	1.2695	45,000	48,000	0.1281	0.0640	0.4143	0.3731
Rectangle	1.000	2.000	0.072	15	1.3993	50,000	55,000	0.1393	0.0697	0.4115	0.4113
Rectangle	1.000	2.000	0.083	14	1.6007	50,000	55,000	0.1560	0.0780	0.4072	0.4704
Rectangle	1.500	2.500	0.049	18	1.3011	45,000	48,000	0.2020	0.1515	0.6295	0.3824
Rectangle	1.500	2.500	0.058	17	1.5330	45,000	48,000	0.2353	0.1765	0.6258	0.4505
Rectangle	1.500	2.500	0.065	16	1.7118	45,000	48,000	0.2604	0.1953	0.6230	0.5031
Rectangle	1.500	2.500	0.072	15	1.8893	50,000	55,000	0.2848	0.2136	0.6202	0.5553
Rectangle	1.500	2.500	0.083	14	2.1655	50,000	55,000	0.3219	0.2414	0.6159	0.6364
Rectangle	1.500	2.500	0.095	13	2.4631	50,000	55,000	0.3605	0.2704	0.6111	0.7239
Rectangle	1.500	2.500	0.109	12	2.8053	50,000	55,000	0.4033	0.3024	0.6057	0.8245
Rectangle	1.500	2.500	0.120	11	3.0704	50,000	55,000	0.4352	0.3264	0.6014	0.9024
Rectangle	1.500	3.000	0.065	16	1.9330	45,000	48,000	0.3050	0.2288	0.6346	0.5681
Rectangle	1.500	3.000	0.072	15	2.1343	50,000	55,000	0.3338	0.2503	0.6317	0.6273
Rectangle	1.500	3.000	0.083	14	2.4479	50,000	55,000	0.3775	0.2831	0.6273	0.7194
Rectangle	1.500	3.000	0.095	13	2.7863	50,000	55,000	0.4231	0.3173	0.6225	0.8189
Rectangle	1.500	3.000	0.109	12	3.1762	50,000	55,000	0.4737	0.3553	0.6169	0.9335
Rectangle	1.500	3.000	0.120	11	3.4787	50,000	55,000	0.5116	0.3837	0.6126	1.0224

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Note: the section properties for square and rectangular tube are calculated exclusive of the corner radii.

Shape	Outside Length	Outside Height	Decimal Gauge	Nominal Gauge	Lbs/Foot	Yield Strength (psi)	Tensile Strength (psi)	MINOR AXIS ONLY			Area
								Section Modulus	Moment of Inertia	Radius of Gyration	
Rectangle	1.500	3.000	0.134	10	3.8590	50,000	55,000	0.5574	0.4180	0.6071	1.1342
Rectangle	1.500	3.500	0.049	18	1.6345	45,000	48,000	0.2708	0.2031	0.6502	0.4804
Rectangle	1.500	3.500	0.058	17	1.9277	45,000	48,000	0.3157	0.2368	0.6465	0.5665
Rectangle	1.500	3.500	0.065	16	2.1541	45,000	48,000	0.3497	0.2623	0.6436	0.6331
Rectangle	1.500	3.500	0.072	15	2.3792	50,000	55,000	0.3828	0.2871	0.6407	0.6993
Rectangle	1.500	3.500	0.083	14	2.7303	50,000	55,000	0.4331	0.3248	0.6362	0.8024
Rectangle	1.500	3.500	0.095	13	3.1095	50,000	55,000	0.4857	0.3643	0.6313	0.9139
Rectangle	1.500	3.500	0.109	12	3.5470	50,000	55,000	0.5441	0.4081	0.6257	1.0425
Rectangle	1.500	3.500	0.120	11	3.8870	50,000	55,000	0.5879	0.4409	0.6213	1.1424
Rectangle	1.500	3.500	0.134	10	4.3150	50,000	55,000	0.6410	0.4807	0.6157	1.2682
Rectangle	1.625	3.000	0.065	16	1.9883	45,000	48,000	0.3368	0.2736	0.6843	0.5844
Rectangle	1.625	3.000	0.072	15	2.1955	50,000	55,000	0.3688	0.2996	0.6814	0.6453
Rectangle	1.625	3.000	0.083	14	2.5185	50,000	55,000	0.4176	0.3393	0.6770	0.7402
Rectangle	1.625	3.000	0.095	13	2.8671	50,000	55,000	0.4687	0.3808	0.6722	0.8427
Rectangle	1.625	3.000	0.109	12	3.2689	50,000	55,000	0.5256	0.4270	0.6667	0.9607
Rectangle	1.625	3.000	0.120	11	3.5808	50,000	55,000	0.5683	0.4617	0.6624	1.0524
Rectangle	2.000	3.000	0.065	16	2.1541	45,000	48,000	0.4360	0.4360	0.8299	0.6331
Rectangle	2.000	3.000	0.072	15	2.3792	50,000	55,000	0.4784	0.4784	0.8271	0.6993
Rectangle	2.000	3.000	0.083	14	2.7303	50,000	55,000	0.5431	0.5431	0.8227	0.8024
Rectangle	2.000	3.000	0.095	13	3.1095	50,000	55,000	0.6115	0.6115	0.8180	0.9139
Rectangle	2.000	3.000	0.109	12	3.5470	50,000	55,000	0.6881	0.6881	0.8124	1.0425
Rectangle	2.000	3.000	0.120	11	3.8870	50,000	55,000	0.7461	0.7461	0.8081	1.1424
Rectangle	2.000	3.000	0.134	10	4.3150	50,000	55,000	0.8171	0.8171	0.8027	1.2682
Rectangle	2.000	3.000	0.148	9	4.7376	50,000	55,000	0.8851	0.8851	0.7973	1.3924
Rectangle	2.000	3.000	0.165	8	5.2436	50,000	55,000	0.9637	0.9637	0.7908	1.5411
Rectangle	2.000	3.000	0.180	7	5.6835	50,000	55,000	1.0296	1.0296	0.7851	1.6704
Rectangle	2.000	3.000	0.203	6	6.3462	50,000	55,000	1.1245	1.1245	0.7765	1.8652
Rectangle	2.000	3.000	0.220	5	6.8268	50,000	55,000	1.1901	1.1901	0.7702	2.0064
Rectangle	2.000	4.000	0.083	14	3.2951	50,000	55,000	0.6957	0.6957	0.8476	0.9684
Rectangle	2.000	4.000	0.095	13	3.7560	50,000	55,000	0.7840	0.7840	0.8427	1.1039
Rectangle	2.000	4.000	0.109	12	4.2888	50,000	55,000	0.8832	0.8832	0.8371	1.2605
Rectangle	2.000	4.000	0.120	11	4.7036	50,000	55,000	0.9584	0.9584	0.8327	1.3824
Rectangle	2.000	4.000	0.134	10	5.2268	50,000	55,000	1.0508	1.0508	0.8271	1.5362
Rectangle	2.000	4.000	0.148	9	5.7447	50,000	55,000	1.1395	1.1395	0.8215	1.6884
Rectangle	2.000	4.000	0.165	8	6.3664	50,000	55,000	1.2423	1.2423	0.8148	1.8711

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Note: the section properties are calculated for a flat-sided oval not for a true elliptical shape.

Shape	Outside Length	Outside Height	Decimal Gauge	Nominal Gauge	Lbs/Foot	Yield Strength (psi)	Tensile Strength (psi)	MAJOR AXIS ONLY			Area
								Section Modulus	Moment of Inertia	Radius of Gyration	
Oval	1.500	1.000	0.035	20	0.4775	45,000	48,000	0.04798	0.03599	0.50502	0.14111
Oval	1.500	1.000	0.042	19	0.5699	45,000	48,000	0.05672	0.04254	0.50259	0.16841
Oval	1.500	1.000	0.049	18	0.6612	45,000	48,000	0.06518	0.04888	0.50017	0.19540
Oval	1.500	1.000	0.058	17	0.7771	45,000	48,000	0.07566	0.05674	0.49709	0.22964
Oval	1.500	1.000	0.065	16	0.8661	45,000	48,000	0.08351	0.06264	0.49471	0.25593
Oval	1.500	1.000	0.072	15	0.9540	50,000	55,000	0.09111	0.06833	0.49234	0.28191
Oval	1.750	1.125	0.035	20	0.5536	45,000	48,000	0.06500	0.05688	0.58963	0.16360
Oval	1.750	1.125	0.042	19	0.6612	45,000	48,000	0.07699	0.06737	0.58718	0.19540
Oval	1.750	1.125	0.049	18	0.7678	45,000	48,000	0.08866	0.07758	0.58475	0.22689
Oval	1.750	1.125	0.058	17	0.9033	45,000	48,000	0.10320	0.09030	0.58164	0.26692
Oval	1.750	1.125	0.065	16	1.0074	45,000	48,000	0.11415	0.09988	0.57924	0.29771
Oval	1.750	1.125	0.072	15	1.1106	50,000	55,000	0.12480	0.10920	0.57684	0.32818
Oval	1.750	1.125	0.083	14	1.2705	50,000	55,000	0.14094	0.12332	0.57311	0.37545
Oval	2.000	1.094	0.035	20	0.6087	45,000	48,000	0.08007	0.08007	0.66719	0.17986
Oval	2.000	1.094	0.042	19	0.7273	45,000	48,000	0.09496	0.09496	0.66471	0.21491
Oval	2.000	1.094	0.049	18	0.8448	45,000	48,000	0.10949	0.10949	0.66225	0.24965
Oval	2.000	1.094	0.058	17	0.9945	45,000	48,000	0.12766	0.12766	0.65909	0.29387
Oval	2.000	1.094	0.065	16	1.1096	45,000	48,000	0.14139	0.14139	0.65665	0.32791
Oval	2.000	1.094	0.072	15	1.2238	50,000	55,000	0.15478	0.15478	0.65421	0.36164
Oval	2.250	1.313	0.035	20	0.6975	45,000	48,000	0.10471	0.11780	0.75600	0.20611
Oval	2.250	1.313	0.042	19	0.8339	45,000	48,000	0.12437	0.13991	0.75352	0.24641
Oval	2.250	1.313	0.049	18	0.9692	45,000	48,000	0.14361	0.16156	0.75106	0.28640
Oval	2.250	1.313	0.058	17	1.1417	45,000	48,000	0.16774	0.18871	0.74791	0.33737
Oval	2.250	1.313	0.065	16	1.2746	45,000	48,000	0.18606	0.20931	0.74546	0.37666
Oval	2.250	1.313	0.072	15	1.4065	50,000	55,000	0.20397	0.22947	0.74303	0.41564
Oval	2.250	1.313	0.083	14	1.6117	50,000	55,000	0.23134	0.26026	0.73923	0.47627
Oval	2.250	1.313	0.095	13	1.8326	50,000	55,000	0.26012	0.29264	0.73510	0.54154
Oval	2.375	1.625	0.049	18	1.0697	45,000	48,000	0.17180	0.20401	0.80336	0.31611
Oval	2.375	1.625	0.058	17	1.2606	45,000	48,000	0.20089	0.23856	0.80023	0.37253
Oval	2.375	1.625	0.065	16	1.4079	45,000	48,000	0.22301	0.26482	0.79781	0.41606
Oval	2.750	1.630	0.049	18	1.1950	45,000	48,000	0.21876	0.30080	0.92292	0.35314
Oval	2.750	1.630	0.058	17	1.4090	45,000	48,000	0.25616	0.35222	0.91975	0.41636
Oval	2.750	1.630	0.065	16	1.5742	45,000	48,000	0.28467	0.39142	0.91730	0.46518
Oval	2.750	1.630	0.072	15	1.7383	50,000	55,000	0.31268	0.42994	0.91485	0.51369
Oval	2.750	1.630	0.083	14	1.9942	50,000	55,000	0.35571	0.48910	0.91102	0.58930

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Note: the section properties are calculated for a flat-sided oval not for a true elliptical shape.

Shape	Outside Length	Outside Height	Decimal Gauge	Nominal Gauge	Lbs/Foot	Yield Strength (psi)	Tensile Strength (psi)	MINOR AXIS ONLY			Area
								Section Modulus	Moment of Inertia	Radius of Gyration	
Oval	1.500	1.000	0.035	20	0.4775	45,000	48,000	0.04104	0.02052	0.38133	0.14111
Oval	1.500	1.000	0.042	19	0.5699	45,000	48,000	0.04834	0.02417	0.37886	0.16841
Oval	1.500	1.000	0.049	18	0.6612	45,000	48,000	0.05536	0.02768	0.37640	0.19540
Oval	1.500	1.000	0.058	17	0.7771	45,000	48,000	0.06399	0.03199	0.37325	0.22964
Oval	1.500	1.000	0.065	16	0.8661	45,000	48,000	0.07039	0.03519	0.37083	0.25593
Oval	1.500	1.000	0.072	15	0.9540	50,000	55,000	0.07653	0.03826	0.36842	0.28191
Oval	1.750	1.125	0.035	20	0.5536	45,000	48,000	0.05478	0.03082	0.43401	0.16360
Oval	1.750	1.125	0.042	19	0.6612	45,000	48,000	0.06468	0.03638	0.43151	0.19540
Oval	1.750	1.125	0.049	18	0.7678	45,000	48,000	0.07424	0.04176	0.42902	0.22689
Oval	1.750	1.125	0.058	17	0.9033	45,000	48,000	0.08605	0.04840	0.42584	0.26692
Oval	1.750	1.125	0.065	16	1.0074	45,000	48,000	0.09487	0.05337	0.42339	0.29771
Oval	1.750	1.125	0.072	15	1.1106	50,000	55,000	0.10338	0.05815	0.42095	0.32818
Oval	1.750	1.125	0.083	14	1.2705	50,000	55,000	0.11614	0.06533	0.41713	0.37545
Oval	2.000	1.094	0.035	20	0.6087	45,000	48,000	0.06239	0.03413	0.43558	0.17986
Oval	2.000	1.094	0.042	19	0.7273	45,000	48,000	0.07367	0.04030	0.43302	0.21491
Oval	2.000	1.094	0.049	18	0.8448	45,000	48,000	0.08457	0.04626	0.43046	0.24965
Oval	2.000	1.094	0.058	17	0.9945	45,000	48,000	0.09804	0.05363	0.42720	0.29387
Oval	2.000	1.094	0.065	16	1.1096	45,000	48,000	0.10811	0.05914	0.42467	0.32791
Oval	2.000	1.094	0.072	15	1.2238	50,000	55,000	0.11782	0.06445	0.42216	0.36164
Oval	2.250	1.313	0.035	20	0.6975	45,000	48,000	0.08453	0.05550	0.51889	0.20611
Oval	2.250	1.313	0.042	19	0.8339	45,000	48,000	0.10007	0.06570	0.51634	0.24641
Oval	2.250	1.313	0.049	18	0.9692	45,000	48,000	0.11517	0.07561	0.51380	0.28640
Oval	2.250	1.313	0.058	17	1.1417	45,000	48,000	0.13395	0.08794	0.51055	0.33737
Oval	2.250	1.313	0.065	16	1.2746	45,000	48,000	0.14808	0.09722	0.50804	0.37666
Oval	2.250	1.313	0.072	15	1.4065	50,000	55,000	0.16180	0.10622	0.50554	0.41564
Oval	2.250	1.313	0.083	14	1.6117	50,000	55,000	0.18254	0.11984	0.50162	0.47627
Oval	2.250	1.313	0.095	13	1.8326	50,000	55,000	0.20407	0.13397	0.49738	0.54154
Oval	2.375	1.625	0.049	18	1.0697	45,000	48,000	0.14899	0.12105	0.61882	0.31611
Oval	2.375	1.625	0.058	17	1.2606	45,000	48,000	0.17377	0.14119	0.61564	0.37253
Oval	2.375	1.625	0.065	16	1.4079	45,000	48,000	0.19253	0.15643	0.61317	0.41606
Oval	2.750	1.630	0.049	18	1.1950	45,000	48,000	0.17757	0.14472	0.64016	0.35314
Oval	2.750	1.630	0.058	17	1.4090	45,000	48,000	0.20723	0.16889	0.63690	0.41636
Oval	2.750	1.630	0.065	16	1.5742	45,000	48,000	0.22969	0.18720	0.63437	0.46518
Oval	2.750	1.630	0.072	15	1.7383	50,000	55,000	0.25164	0.20509	0.63185	0.51369
Oval	2.750	1.630	0.083	14	1.9942	50,000	55,000	0.28509	0.23235	0.62792	0.58930

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