

Domestic Copper Tube

Code	ID	OD		Theoretical Weight in Kg/5.5m length	Wall Thickness (mm)	Max Safe Working Pressure in Megapascals	Tube Hardness Condition	Theoretical Mass per meter (Kg/m)	Area (mm ²)	Volume Liters/Meter of water (l/m)	Mass of Tube filled with Water (Kg/m)	Flow Rate @2.5m/s (l/min)
15 460/0	14	15		1.12	0.5	4.8	Hard	0.204	153.938	0.1539	0.358	23.09
22 460/0	20.8	22		1.98	0.6	3.9	Hard	0.360	339.795	0.3398	0.700	50.97
28 460/0	26.8	28		2.53	0.6	3.1	Hard	0.460	564.104	0.5641	1.024	84.62
35 460/0	33.5	35		3.96	0.75	3.1	Hard	0.720	881.413	0.8814	1.601	132.21
42 460/0	40.2	42		5.7	0.9	3.1	Hard	1.036	1269.23	1.2692	2.306	190.39
54 460/0	51.6	54		9.76	1.2	3.2	Hard	1.775	2091.17	2.0912	3.866	313.68
67 460/0	64	67		15.13	1.5	3.2	Hard	2.751	3216.99	3.2170	5.968	482.55
76 460/0	72.6	76		19.45	1.7	3.2	Hard	3.536	4139.65	4.1396	7.676	620.95
108 460/0	103.4	108		37.44	2.3	3.1	Hard	6.807	8397.13	8.3971	15.204	1259.57

15 460/1	13.6	15		1.54	0.7	5.1	Half Hard	0.280	145.267	0.1453	0.425	21.79
22 460/1	20.2	22		2.92	0.9	4.5	Half Hard	0.531	320.474	0.3205	0.851	48.07
28 460/1	26.2	28		3.76	0.9	3.5	Half Hard	0.684	539.129	0.5391	1.223	80.87
35 460/1	32.6	35		6.25	1.2	3.8	Half Hard	1.136	834.69	0.8347	1.971	125.20
42 460/1	39.6	42		7.54	1.2	3.1	Half Hard	1.371	1231.63	1.2316	2.603	184.74
54 460/1	51.6	54		9.76	1.2	3.2	Hard	1.775	2091.17	2.0912	3.866	313.68
67 460/1	64	67		15.13	1.5	3.2	Hard	2.751	3216.99	3.2170	5.968	482.55
76 460/1	72.6	76		19.45	1.7	3.2	Hard	3.536	4139.65	4.1396	7.676	620.95
108 460/1	103.4	108		37.44	2.3	3.1	Hard	6.807	8397.13	8.3971	15.204	1259.57

15 460/2	13	15		2.16	1	7.3	Half Hard	0.393	132.732	0.1327	0.525	19.91
22 460/2	20	22		3.23	1	5.0	Half Hard	0.587	314.159	0.3142	0.901	47.12
28 460/2	25.6	28		4.95	1.2	4.7	Half Hard	0.900	514.719	0.5147	1.415	77.21
35 460/2	32	35		7.74	1.5	4.7	Half Hard	1.407	804.248	0.8042	2.212	120.64
42 460/2	39	42		9.36	1.5	3.9	Half Hard	1.702	1194.59	1.1946	2.896	179.19
54 460/2	50	54		16.02	2	5.3	Hard	2.913	1963.5	1.9635	4.876	294.52
67 460/2	63	67		20.02	2	4.3	Hard	3.640	3117.25	3.1172	6.757	467.59
76 460/2	72	76		22.79	2	3.8	Hard	4.144	4071.5	4.0715	8.215	610.73
108 460/2	103	108		40.62	2.5	3.3	Hard	7.385	8332.29	8.3323	15.718	1249.84

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15 460/3	12.6	15		2.55	1.2	8.8	Half Hard	0.464	124.69	0.1247	0.588	18.70
22 460/3	19	22		4.74	1.5	7.5	Half Hard	0.862	283.529	0.2835	1.145	42.53
28 460/3	25	28		6.12	1.5	5.9	Half Hard	1.113	490.874	0.4909	1.604	73.63
35 460/3	31	35		10.16	2	6.3	Half Hard	1.847	754.768	0.7548	2.602	113.22
42 460/3	38	42		12.32	2	5.2	Half Hard	2.240	1134.11	1.1341	3.374	170.12
54 460/3	49	54		19.83	2.5	6.7	Hard	3.605	1885.74	1.8857	5.491	282.86
67 460/3	62	67		24.83	2.5	5.4	Hard	4.515	3019.07	3.0191	7.534	452.86
76 460/3	71	76		28.3	2.5	4.7	Hard	5.145	3959.19	3.9592	9.105	593.88
108 460/3	101.6	108		51.65	3.2	4.3	Hard	9.391	8107.32	8.1073	17.498	1216.10

15 460/B	13.6	15		1.54	0.7	6.7	Hard	0.280	145.267	0.1453	0.425	21.79
22 460/B	20.2	22		2.92	0.9	5.9	Hard	0.531	320.474	0.3205	0.851	48.07
28 460/B	26.2	28		3.76	0.9	4.6	Hard	0.684	539.129	0.5391	1.223	80.87
35 460/B	32.6	35		6.25	1.2	4.9	Hard	1.136	834.69	0.8347	1.971	125.20
42 460/B	39.6	42		7.54	1.2	4.1	Hard	1.371	1231.63	1.2316	2.603	184.74
54 460/B	51.6	54		9.76	1.2	3.2	Hard	1.775	2091.17	2.0912	3.866	313.68
67 460/B	64	67		15.13	1.5	3.2	Hard	2.751	3216.99	3.2170	5.968	482.55
76 460/B	72.6	76		19.45	1.7	3.2	Hard	3.536	4139.65	4.1396	7.676	620.95
108 460/B	103.4	108		37.44	2.3	3.1	Hard	6.807	8397.13	8.3971	15.204	1259.57

Medical High Pressure

Code	ID	OD	OD (imperial)	Theoretical Weight in Kg/5.5m length	Wall Thickness (mm)	Max Safe Working Pressure in Megapascals	Tube Hardness Condition	Theoretical Mass per meter (Kg/m)	Area (mm ²)	Volume Liters/Meter of water (l/m)	Mass of Tube filled with Water (Kg/m)	Flow Rate @2.5m/s (l/min)
MED 7.94 HP	4.74	7.94	5/16"	1.56	1.6	29.0	Hard	0.284	17.646	0.0176	0.301	2.65
MED 15.88 HP	9.38	15.88	5/8"	6.32	3.25	29.5	Hard	1.149	69.1028	0.0691	1.218	10.37
MED 22.23 HP	15.73	22.23	7/8"	9.5	3.25	21.1	Hard	1.727	194.333	0.1943	1.922	29.15
MED 25.40 HP	18.90	25.40	1"	11.09	3.25	18.4	Hard	2.016	280.552	0.2806	2.297	42.08

Medical

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MED 6.35	4.93	6.35	1/4"	0.62	0.71	12.3	Half Hard	0.113	19.089	0.0191	0.132	2.86
MED 7.94	6.52	7.94	5/16"	0.79	0.71	9.8	Half Hard	0.144	33.3876	0.0334	0.177	5.01
MED 9.53	8.11	9.53	3/8"	0.96	0.71	8.2	Half Hard	0.175	51.6573	0.0517	0.226	7.75
MED 12.70	11.18	12.7	1/2"	1.4	0.76	6.6	Half Hard	0.255	98.1688	0.0982	0.353	14.73
MED 15.88	14.26	15.88	5/8"	1.88	0.81	5.6	Half Hard	0.342	159.709	0.1597	0.502	23.96
MED 19.05	17.27	19.05	3/4"	2.49	0.89	5.1	Half Hard	0.453	234.247	0.2342	0.687	35.14
MED 22.23	20.19	22.23	7/8"	3.33	1.02	5.0	Half Hard	0.605	320.157	0.3202	0.926	48.02
MED 28.58	26.54	28.58	1 1/8"	4.33	1.02	5.1	Hard	0.787	553.212	0.5532	1.340	82.98
MED 34.93	32.49	34.93	1 3/8"	6.33	1.22	5.0	Hard	1.151	829.066	0.8291	1.980	124.36
MED 41.28	38.48	41.28	1 5/8"	8.6	1.4	4.9	Hard	1.564	1162.95	1.1629	2.727	174.44
MED 53.98	50.68	53.98	2 1/8"	13.3	1.65	4.4	Hard	2.418	2017.27	2.0173	4.435	302.59
MED 66.68	63.12	66.68	2 5/8"	17.79	1.78	3.8	Hard	3.235	3129.13	3.1291	6.364	469.37

Refrigeration

Code	ID	OD	OD (imperial)	Theoretical Weight in Kg/5.5m length	Wall Thickness (mm)	Max Safe Working Pressure in Megapascals	Tube Hardness Condition	Theoretical Mass per meter (Kg/m)	Area (mm ²)	Volume Liters/Meter of water (l/m)	Mass of Tube filled with Water (Kg/m)	Flow Rate @2.5m/s (l/min)
											0.000	
REF 6.35	5.21	6.35	1/4"	0.51	0.57	12.9	Hard	0.093	21.3189	0.0213	0.114	3.20
REF 7.94	6.8	7.94	5/16"	0.65	0.57	10.3	Hard	0.118	36.3168	0.0363	0.154	5.45
REF 9.53	8.39	9.53	3/8"	0.79	0.57	8.6	Hard	0.144	55.2858	0.0553	0.199	8.29
REF 12.70	11.48	12.7	1/2"	1.14	0.61	6.9	Hard	0.207	103.508	0.1035	0.311	15.53
REF 15.88	14.46	15.88	5/8"	1.66	0.71	6.4	Hard	0.302	164.22	0.1642	0.466	24.63
REF 19.05	17.63	19.05	3/4"	2.01	0.71	5.4	Hard	0.365	244.115	0.2441	0.610	36.62
REF 22.23	20.61	22.23	7/8"	2.67	0.81	5.2	Hard	0.485	333.615	0.3336	0.819	50.04
REF 28.58	26.76	28.58	1 1/8"	3.88	0.91	4.6	Hard	0.705	562.422	0.5624	1.268	84.36
REF 34.93	32.89	34.93	1 3/8"	5.33	1.02	4.2	Hard	0.969	849.606	0.8496	1.819	127.44
REF 41.28	38.84	41.28	1 5/8"	7.53	1.22	4.3	Hard	1.369	1184.81	1.1848	2.554	177.72
REF 53.98	51.14	53.98	2 1/8"	11.49	1.42	3.8	Hard	2.089	2054.05	2.0541	4.143	308.11
REF 66.68	63.42	66.68	2 5/8"	16.33	1.63	3.5	Hard	2.969	3158.95	3.1589	6.128	473.84