

NZS 3501

Table 1: Copper Tubes for Water and Gas

Nominal bore	Outside diameter	Wall thickness	Safe working pressure*	Operating pressure (max.)**	Hydrostatic test pressure	Nominal weight	Temper	Length	Water content
mm	mm	mm	MPa	MPa	MPa	kg/m		m	l/m
10	11,35	0,910	8,02	8,9	6,41	0,267	Half Hard	5	0,071
15	14,73	1,020	6,84	7,6	5,54	0,393	Half Hard	5	0,126
20	21,08	1,020	4,68	5,2	3,87	0,575	Half Hard	5	0,285
25	27,43	1,020	3,55	4,0	2,97	0,757	Half Hard	5	0,506
32	34,19	1,220	3,40	3,8	2,85	1,130	Hard Drawn	5	0,792
40	40,54	1,220	2,85	3,2	2,41	1,347	Hard Drawn	5	1,140
50	53,24	1,220	2,16	2,4	1,83	1,782	Hard Drawn	5	2,027
65	65,94	1,220	1,73	1,9	1,48	2,218	Hard Drawn	5	3,167
80	79,45	1,630	1,93	2,1	1,64	3,563	Hard Drawn	5	4,559
90	92,56	1,830	1,86	2,1	1,58	4,663	Hard Drawn	5	6,207
100	105,66	2,030	1,80	2,0	1,54	5,908	Hard Drawn	5	8,107

*in annealed state, up to temperatures of 65°C according NZS 3501

**in annealed state (Rm 200), up to temperatures of 100°C, calculated with 3.5-fold safety according to AD2000-Merkblatt B0 / B1

Table 2: Copper Tubes for Sanitation

Nominal bore	Outside diameter	Wall thickness	Safe working pressure*	Operating pressure (max.)**	Hydrostatic test pressure	Nominal weight	Temper	Length	Water content
mm	mm	mm	MPa	MPa	MPa	kg/m		m	l/m
25	27,43	1,020	3,55	4,0	2,97	0,757	Half Hard	5	0,506
32	34,19	1,220	3,40	3,8	2,85	1,130	Hard Drawn	5	0,792
40	40,54	1,220	2,85	3,2	2,41	1,347	Hard Drawn	5	1,140
50	53,24	1,220	2,16	2,4	1,83	1,782	Hard Drawn	5	2,027
65	65,94	1,220	1,73	1,9	1,48	2,218	Hard Drawn	5	3,167
80	79,04	1,420	1,68	1,9	1,44	3,096	Hard Drawn	5	4,560
90	92,15	1,630	1,66	1,8	1,42	4,144	Hard Drawn	5	6,206
100	104,85	1,630	1,45	1,6	1,24	4,725	Hard Drawn	5	8,106
125	130,25	1,630	1,17	1,3	1,00	5,888	Hard Drawn	5	12,666
150	156,06	1,830	1,09	1,2	0,94	7,927	Hard Drawn	5	18,241
200	194,5	3,000	1,44	1,6	1,23	16,135	Hard Drawn	5	27,907
250	268	3,000	1,04	1,1	0,90	22,328	Hard Drawn	5	53,913

*in annealed state, up to temperatures of 65°C according NZS 3501

**in annealed state (Rm 200), up to temperatures of 100°C, calculated with 3.5-fold safety according to AD2000-Merkblatt B0 / B1

Table 3: Light Gauge Copper Tubes for Water and Gas

Nominal bore	Outside diameter	Wall thickness	Safe working pressure*	Operating pressure (max.)**	Hydrostatic test pressure	Nominal weight	Temper	Length	Water content
mm	mm	mm	MPa	MPa	MPa	kg/m		m	l/m
10	11,35	0,6	5,13	5,7	4,23	0,181	Half Hard	5	0,081
15	14,73	0,7	4,59	5,1	3,80	0,276	Half Hard	5	0,140
20	21,08	0,9	4,10	4,6	3,42	0,510	Half Hard	5	0,292

*in annealed state, up to temperatures of 65°C according NZS 3501

**in annealed state (Rm 200), up to temperatures of 100°C, calculated with 3.5-fold safety according to AD2000-Merkblatt B0 / B1