

Annealed Seamless Copper Tube (Category 45)

Imperial Copper Tube - Manufactured to AS1432

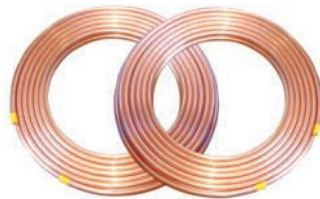
Sold in Full Coils Only



Code	Tube Size Imperial	Tube Size Metric	Coil Length	Working Pressure Max (PSI)	Burst Pressure (PSI)
45-0220	1/8x20#	3.18x0.91	6m	4200	16900
45-0222	1/8x22#	3.18x0.71	30m	2900	13200
45-0320	3/16x20#	4.76x0.91	6m/12m/30m	2450	11090
45-0420	1/4x20#	6.35x0.91	6m/12m/30m	1750	8300
45-0520	5/16x20#	7.94x0.91	6m/12m/30m	1360	6640
45-0620	3/8x20#	9.52x0.91	6m/12m/18m	1110	5540
45-0820	1/2x20#	12.7x0.91	6m/12m/18m	810	4150
45-1020	5/8x20#	15.9x0.91	18m	640	3320
45-1220	3/4x20#	19.0x0.91	18m	530	2770
45-1618	1"x18#	25.4x1.22	18m	535	2780

Japanese Metric Copper Tube to JIS C1220T (ASTM C22200)

Sold in Full Coils Only



Code	Tube Size	Coil Length	Working Pressure Max (KPA)	Burst Pressure (KPA)
45-M0407	4mm x 0.75	10m/20m	16020	75000
45-M0610	6mm x 1.00	10m/20m	14570	66660
45-M1010	10mm x 1.00	10m/20m	8160	40000
45-M1210	12mm x 1.00	10m/20m	6690	33330

Hard Drawn Copper Tube (Category 45)



Code	Tube Size Imperial	Tube Size Metric	Length	Working Pressure Max (PSI)	Burst Pressure (PSI)
45-H0420	1/4x20#	6.35x0.91	6m	1750	8300
45-H0520	5/16x20#	7.94x0.91	6m	1360	6640
45-H0620	3/8x20#	9.52x0.91	6m	1110	5540
45-H0819	1/2x19#	12.7x1.02	6m	950	4860
45-H0820	1/2x20#	12.7x0.91	6m	810	4150
45-H1219	3/4x19#	19.0x1.02	6m	600	3130
45-H1618	1"x18#	25.4x1.22	6m	535	2780

The working pressures listed above are theoretical working pressures based on a tensile strength of 30,000 PSI (206 MPA) and a temperature range of -29° to 38° C (-20° to 100° F).

For higher temperatures, the table to the right can be used as a guide. Multiply the working pressure of the tube by the multiplication factor for the relevant temperature. E.g. : The working pressure of 3/8x20# tube @ 149°C = 1212x0.78 = 945 PSI.

Precautions should be taken to prevent mediums such as water from freezing within the tube as this can result in the tube bursting.

Temp °C	Multiplication Factor
66	0.85
93	0.80
121	0.80
149	0.78
177	0.67
204	0.50

Bundyweld Steel Tubing (Category 45)

Tube Size Imperial	Tube Size Metric	Standard Length	Product Code	Working Pressure Max (PSI)	Burst Pressure (PSI)
3/16x22#	4.76x0.71	5.3m	45-B0322	2770	13870
1/4x22#	6.35x0.71	5.3m	45-B0422	2000	10074
5/16x22#	7.94x0.71	5.3m	45-B0522	1570	7884
3/8x22#	9.52x0.71	5.3m	45-B0622	1430	7151

- Sold only in full 5.3 metre lengths.
- Can be supplied in straight lengths or coiled.
- Bundy Tube comes copper coated to help prevent corrosion.

Stainless Steel Tubing (Category 45)

Seamless 316 Stainless Steel Tubing Cold Drawn to ASTM A269 or Equivalent

Product Code	Tube Size (O.D.xW.T.)	Working Pres. (PSI)
46-SS02-20	1/8x20# (3.18x0.91)	11854
46-SS03-20	3/16x20# (4.76x0.91)	7190
46-SS04-16	1/4x20# (6.35x1.63)	10100
46-SS04-18	1/4x18# (6.35x1.22)	7500
46-SS04-20	1/4x20# (6.35x0.91)	5159
46-SS05-20	5/16x20# (7.94x0.91)	4023
46-SS06-16	3/8x16# (9.53x1.63)	6320
46-SS06-18	3/8x18# (9.53x1.22)	4549
46-SS06-20	3/8x20# (9.53x0.91)	3297
46-SS08-16	1/2x16# (12.7x1.63)	4559
46-SS08-18	1/2x18# (12.7x1.22)	3317
46-SS08-20	1/2x20# (12.7x0.91)	2423
46-SS10-16	5/8x16# (15.88x1.63)	3775
46-SS12-16	3/4x16# (19.05x1.63)	3100
46-SS12-18	3/4x18# (19.05x1.22)	2278
46-SS16-14	1"x14# (25.4x2.03)	2988
46-SS16-16	1"x16# (25.4x1.63)	2283
46-SSM06	6mm x 1mm	5442
46-SSM10	10mm x 1.5mm	5225
46-SSM12	12mm x 1.5mm	4354



The working pressures listed above are theoretical working pressures based on a tensile strength of 75000 PSI, a safety factor of 4:1 and a temperature range of -198° to 37° C (-325° to 100° F).

For higher temperatures, the following table can be used as a guide. Multiply the working pressure of the tube by the multiplication factor for the relevant temperature.

Eg : The working pressure of 3/8x20# tube @ 510°C = 3297x0.82 = 2703 PSI.

Temp °C	Multiplication Factor	Temp °C	Multiplication Factor	Temp °C	Multiplication Factor
66	1.00	316	0.91	566	0.81
93	1.00	343	0.89	593	0.66
121	0.99	371	0.87	649	0.40
149	0.98	399	0.86	677	0.29
177	0.97	427	0.84	704	0.22
204	0.96	454	0.84	732	0.17
232	0.96	482	0.83	760	0.12
260	0.96	510	0.82	788	0.09
288	0.94	538	0.82	815	0.07