

Refrigeration and Air Conditioning Tubes Working Pressures



The table below and on the next page give the maximum working pressure (MWP). They have been calculated based on the requirements of EN378:2:2008 using the stress values according to EN 14276. Although straight tube is supplied in either half hard or fully hard condition, we have also quoted figures based on annealed condition which is representative of the tube in the area immediately surrounding brazed joints. The maximum test pressure can be 1.5 times that of the (MWP)

Standard Copper Coiled Tube to EN 12735-1 R220

O.D. (inches)	Wall (inches)	Gauge (SWG)	Max Allowable Pressure (PS) in annealed condition up to 100 c (Barg)
1/4	0.028	22	125
5/16	0.028	22	98
5/16	0.036	20	129
3/8	0.032	21	81
1/2	0.032	21	69
5/8	0.036	20	61
3/4	0.040	19	54
7/8	0.040	19	46

O.D. (inches)	Wall (inches)	Gauge (SWG)	Max Allowable Pressure (PS) in annealed condition up to 100 c (Barg)	Max Allowable Pressure (PS) in supplied* condition at 100deg C (Barg)
3/8"	0.032	21	93	108
1/2"	0.036	20	78	91
1/2"	0.048	18	102	118
5/8"	0.036	20	62	73
5/8"	0.040	19	67	79
5/8"	0.048	18	81	95
3/4"	0.036	20	51	61
3/4"	0.040	19	57	73
3/4"	0.048	18	65	77
3/4"	0.064	16	88	102
7/8"	0.040	19	46	55
7/8"	0.048	18	55	66
7/8"	0.064	16	75	88
7/8"	0.104	12	125	142
1.1/8"	0.048	18	43	51
1.1/8"	0.064	16	57	68
1.1/8"	0.080	14	72	85
1.3/8"	0.048	18	35	41
1.3/8"	0.064	16	47	55
1.3/8"	0.080	14	59	69
1.3/8"	0.104	12	77	90
1.5/8"	0.048	18	29	35
1.5/8"	0.064	16	39	47
1.5/8"	0.080	14	49	58
1.5/8"	0.104	12	65	76
1.5/8"	0.116	11	73	85
2.1/8"	0.048	18	22	27
2.1/8"	0.064	16	30	35
2.1/8"	0.080	14	37	44
2.1/8"	0.104	12	49	58
2.5/8"	0.048	18	18	25
2.5/8"	0.064	16	24	33
2.5/8"	0.080	14	30	41
2.5/8"	0.104	12	39	54
3.1/8"	0.064	16	20	28
3.1/8"	0.080	14	25	35
3.1/8"	0.104	12	33	45
3.5/8"	0.064	16	17	24
3.5/8"	0.080	14	22	30
4.1/8"	0.064	16	15	21
4.1/8"	0.080	14	19	26
4.1/8"	0.104	12	25	34