

Copper - C106 HH / CW024A

Tube

Properties

Stock - Imperial Sizes			Chemical Properties	
OD (in)	Gauge	Weight/m (Kg)	Element	Chemical composition %
1/8	22	0.04	Others (Total)	0.0 - 0.10
3/16	22	0.08	Copper (Cu)	Balance
3/16	18	0.11	Mechanical Properties	
3/16	16	0.10	Property	Value
7/32	21	0.11	Proof stress	50 - 340 MPa
1/4	20	0.13	Tensile strength	200 - 400 MPa
1/4	18	0.15	Elongation	5 - 50%
1/4	16	0.21	Hardness Vickers	40 to 120 HV
5/16	21	0.15	Mechanical properties vary widely according to condition (Soft/HH etc)	
5/16	20	0.18	Physical Properties	
5/16	18	0.22	Property	Value
5/16	16	0.28	Density	8.92 g/cm ³
3/8	22	0.16	Melting point	1083°C
3/8	20	0.22	Thermal expansion	16.9 x 10 ⁻⁶ /K
3/8	18	0.28	Modulus of elasticity	117 GPa
3/8	16	0.36	Thermal conductivity	391.1 W/m.K
7/16	20	0.24	Electrical resistivity	0.0203 x 10 ⁻⁶ Ω.m
1/2	20	0.30		
1/2	18	0.39		
1/2	16	0.51		
1/2	14	0.61		
1/2	10	0.85		
5/8	18	0.49		
5/8	16	0.64		
5/8	14	0.79		
11/16	16	0.72		
3/4	18	0.60		
3/4	16	0.79		
3/4	14	0.97		
7/8	16	0.94		
7/8	14	1.15		
7/8	10	1.71		
1	18	0.82		
1	16	1.07		
1	14	1.33		
1 1/8	16	1.22		
1 1/8	10	2.33		
1 1/4	16	1.37		
1 1/4	14	1.70		
1 1/2	20	1.10		
1 1/2	16	1.65		
1 1/2	14	2.05		

1 3/4	16	1.97
2	16	2.33

Stock - Metric Sizes

OD (mm)	Wall Thickness (mm)	OD (mm)	Wall Thickness (mm)
6	1.0	25	2.0
8	0.8	28	1.2
8	1.0	28	1.5
8	1.5	30	2.0
10	1.0	35	1.5
10	1.5	35	2.5
10	2.0	38	2.0
12	0.8	42	1.5
12	1.0	42	2.0
12	1.5	44.5	2.5
12	2.0	54	2.0
14	2.0	57	2.5
15	1.0	64	2.0
15	1.5	76	2.0
16	1.5	76	3.0
16	2.0	89	2.0
18	1.5	89	2.5
20	1.5	108	2.5
20	2.0	133	2.5
22	1.0	133	3.0
22	1.2	159	3.0
22	1.5		

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