

# Copper - C106 Soft / CW024A

**Tube**
**Properties**

Stock			Chemical Properties	
OD (in)	Gauge	Weight/m (Kg)	Element	Chemical composition %
1/8	22	0.04	Others (Total)	0.0 - 0.10
5/32	22	0.08	Copper (Cu)	Balance
3/16	22	0.08		
3/16	20	0.10		
1/4	22	0.11		
1/4	20	0.13		
1/4	18	0.16		
1/4	16	0.21		
5/16	20	0.18		
5/16	18	0.22		
5/16	16	0.28		
3/8	22	0.16		
3/8	20	0.22		
3/8	18	0.28		
3/8	16	0.36		
1/2	22	0.25		
1/2	20	0.30		
1/2	18	0.39		
1/2	16	0.51		
5/8	20	0.39		
5/8	16	0.64		
3/4	20	0.46		

  

Mechanical Properties	
Property	Value
Proof stress	50 - 340 MPa
Tensile strength	200 - 400 MPa
Elongation	5 - 50%
Hardness Vickers	40 to 120 HV
Mechanical properties vary widely according to condition (Soft/HH etc)	

  

Physical Properties	
Property	Value
Density	8.92 g/cm <sup>3</sup>
Melting point	1083°C
Thermal expansion	16.9 x 10 <sup>-6</sup> /K
Modulus of elasticity	117 GPa
Thermal conductivity	391.1 W/m.K
Electrical resistivity	0.0203 x 10 <sup>-6</sup> Ω.m

## Disclaimer

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