

Copper - C106 Hard / CW024A

Tube
Properties

Stock			Chemical Properties	
OD (in)	Gauge	Weight/m (Kg)	Element	Chemical composition %
2 1/2	22	2.84	Others (Total)	0.0 - 0.10
2 1/2	22	5.53	Copper (Cu)	Balance
2 3/4	22	3.12		
3	20	3.41		
3	22	6.69		
3 1/4	20	3.70		
4	18	8.59		
			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	
			Density	8.92 g/cm ³
			Melting point	1083°C
			Thermal expansion	16.9 x 10 ⁻⁶ /K
			Modulus of elasticity	117 GPa
			Thermal conductivity	391.1 W/m.K
			Electrical resistivity	0.0203 x 10 ⁻⁶ Ω.m

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