

Brass - CW721R / CZ114

Round Bar

Properties

Stock		Chemical Properties	
Dia (in)	Weight/m (Kg)	Element	Chemical Composition %
3/16	0.15	Copper (Cu)	57.00 typical
1/4	0.27	Tin (Sn)	0.75 typical
5/16	0.42	Lead (Pb)	1.20 typical
11/32	0.51	Iron (Fe)	0.75 typical
3/8	0.61	Aluminium (Al)	0.80 typical
7/16	0.83	Zinc (Zn)	Balance
1/2	1.08		
9/16	1.36		
5/8	1.67		
11/16	2.02		
3/4	2.41		
13/16	2.85		
7/8	3.27		
15/16	3.76		
1	4.29		
1 1/16	4.84		
1 1/8	5.43		
1 3/16	6.04		
1 1/4	6.70		
1 5/16	7.38		
1 3/8	8.11		
1 7/16	8.85		
1 1/2	9.64		
1 5/8	11.30		
1 3/4	13.10		
1 7/8	15.10		
2	17.30		
2 1/8	19.40		
2 1/4	21.70		
2 3/8	24.20		
2 1/2	26.80		
2 3/4	32.50		
3	38.60		
3 1/2	52.50		
3 3/4	60.40		
4	68.70		

Mechanical Properties	
Property	Value
Proof Stress	200 - 380 MPa
Tensile Strength	450 - 580 MPa
Elongation	30 - 15%
Hardness Vickers	130 to 170 HV

Physical Properties	
Property	Value
Density	8.63 g/cm ³
Melting Point	865°C
Modulus of Elasticity	96.5 GPa
Electrical Resistivity	0.090 x 10 ⁻⁶ Ω.m
Thermal Conductivity	88.3 W/m.K

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