

Phosphor & Leaded Bronze - CW451K / PB102

Round Bar

Properties

Stock		Chemical Properties	
Dia (in)	Weight/m (Kg)	Element	Chemical composition %
5/32	0.11	Copper (Cu)	Rem
3/16	0.15	Phosphorous	0.01 - 0.4
1/4	0.27	Tin (Sn)	4.5 - 5.5
5/16	0.43	Others	0.2
3/8	0.62		
7/16	0.84	Mechanical Properties	
1/2	1.09	Property	Value
5/8	1.69	Proof stress	140 - 850 Mpa
3/4	2.43	Tensile strength	320 - 950 MPa
7/8	3.30	Elongation	60-1%
1	4.33	Hardness Vickers	75 to 230 HB
1 1/8	5.45	Physical Properties	
1 1/4	6.77	Property	Value
1 3/8	8.19	Density	8.85 Kg/ ³
1 1/2	9.74	Melting point	930°C
1 5/8	11.41	Modulus of elasticity	121 GPa
1 3/4	13.23	Thermal conductivity	63 W/m.K
2	17.47	Electrical resistivity	0.096 x 10 ⁻⁶ Ω.m
2 1/8	19.59		
2 1/4	21.92		
2 1/2	27.07		
2 3/4	32.83		
3	38.99		
3 1/4	45.75		
3 1/2	53.03		

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