

Brass - CW614N / CZ121

Hexagon Bar

Properties

Stock		Chemical Properties	
Size A/F (in)	Weight/m (Kg)	Element	Chemical Composition %
4mm	0.12	Copper (Cu)	58.00 typical
3/16	0.17	Lead (Pb)	3.0 typical
5mm	0.18	Zinc (Zn)	Balance
5.5mm	0.22		
7/32	0.26		
6mm	0.27		
0.248	0.29		
1/4	0.30		
7mm	0.36		
9/32	0.38		
5/16	0.47		
8mm	0.47		
0.324	0.49		
11/32	0.56		
3/8	0.67		
10mm	0.73		
13/32	0.78		
0.413	0.81		
11mm	0.89		
7/16	0.91		
0.445	0.94		
12mm	1.06		
1/2	1.19		
13mm	1.24		
0.525	1.31		
14mm	1.44		
9/16	1.52		
15mm	1.65		
0.600	1.71		
5/8	1.86		
16mm	1.88		
17mm	2.12		
11/16	2.26		
18mm	2.38		
0.710	2.39		
19mm	2.65		
3/4	2.69		
20mm	2.93		
13/16	3.15		
0.820	3.18		
21mm	3.24		
22mm	3.55		

Mechanical Properties	
Property	Value
Proof Stress	150 - 420 MPa
Tensile Strength	360 - 580 MPa
Elongation A50 mm	25 - 5%
Hardness Vickers	100 to 160 HV

Physical Properties	
Property	Value
Density	8.47 g/cm ³
Melting Point	875°C
Thermal Expansion	20.9 x 10 ⁻⁶ /K
Modulus of Elasticity	97 GPa
Thermal Conductivity	123 W/ m.K
Electrical Resistivity	0.062 x 10 ⁻⁶ Ω.m

7/8	3.66
0.920	4.01
15/16	4.20
24mm	4.31
25mm	4.58
1	4.32
1.010	4.80
1 1/16	5.39
27mm	5.35
1.100	5.73
1 1/8	6.04
1.200	6.82
30mm	6.60
1 1/4	7.45
32mm	7.51
1.300	8.00
1 5/16	8.23
1 3/8	9.03
1.390	9.14
36mm	9.51
1 7/16	9.78
1.480	10.40
1 1/2	10.70
1.500	10.70
41mm	12.33
1.625	12.54
1 5/8	12.60
1.670	13.20
1 3/4	14.60
46mm	15.52
1.860	16.40
1 7/8	16.80
50mm	18.34
2	19.10
2.050	19.90
2.220	23.30
2 1/4	24.20
60mm	27.50
2.410	29.80
2 1/2	26.50
65mm	31.10
2.580	31.90
2 3/4	35.70
2.760	36.00
3	42.70
3.020	43.10
3.150	46.90

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