

Brass - CW614N / CZ121

Flat Bar

Properties

Stock		Chemical Properties	
Size (in)	Weight/m (Kg)	Element	Chemical Composition %
1/4 x 1/8	0.18	Copper (Cu)	58.00 typical
1/4 x 5/32	0.21	Lead (Pb)	3.0 typical
1/4 x 3/16	0.25	Zinc (Zn)	Balance
5/16 x 1/16	0.11	Mechanical Properties	
5/16 x 1/8	0.22	Property	Value
5/16 x 5/32	0.27	Proof Stress	150 - 420 MPa
5/16 x 3/16	0.32	Tensile Strength	360 - 580 MPa
5/16 x 1/4	0.43	Elongation A50 mm	25 - 5%
3/8 x 1/16	0.13	Hardness Vickers	100 to 160 HV
3/8 x 3/32	0.19	Physical Properties	
3/8 x 1/8	0.27	Property	Value
3/8 x 5/32	0.31	Density	8.47 g/cm ³
3/8 x 3/16	0.38	Melting Point	875°C
3/8 x 1/4	0.51	Thermal Expansion	20.9 x 10 ⁻⁶ /K
3/8 x 5/16	0.64	Modulus of Elasticity	97 GPa
7/16 x 3/16	0.45	Thermal Conductivity	123 W/ m.K
7/16 x 1/4	0.56	Electrical Resistivity	0.062 x 10 ⁻⁶ Ω.m
1/2 x 1/16	0.18		
1/2 x 3/32	0.25		
1/2 x 1/8	0.35		
1/2 x 3/16	0.51		
1/2 x 1/4	0.68		
1/2 x 5/16	0.85		
1/2 x 3/8	1.02		
9/16 x 5/16	0.96		
9/16 x 1/2	1.53		
5/8 x 1/16	0.22		
5/8 x 3/32	0.32		
5/8 x 1/8	0.44		
5/8 x 3/16	0.64		
5/8 x 1/4	0.85		
5/8 x 5/16	1.06		
5/8 x 3/8	1.27		
5/8 x 1/2	1.70		
11/16 x 1/8	0.49		
3/4 x 1/16	0.27		
3/4 x 1/8	0.53		
3/4 x 3/16	0.76		
3/4 x 1/4	1.02		
3/4 x 5/16	1.27		
3/4 x 3/8	1.53		
3/4 x 7/16	1.90		

3/4 x 1/2	2.04
3/4 x 5/8	2.55
20mm x 3mm	0.51
7/8 x 1/16	0.31
7/8 x 3/32	0.45
7/8 x 1/8	0.62
7/8 x 3/16	0.89
20mm x 6mm	1.02
7/8 x 1/4	1.19
7/8 x 5/16	1.49
7/8 x 3/8	1.79
20mm x 12mm	2.03
7/8 x 7/16	2.09
7/8 x 1/2	2.38
7/8 x 5/8	2.97
7/8 x 3/4	3.57
1 x 1/16	0.35
1 x 3/32	0.51
1 x 1/8	0.71
1 x 3/16	1.02
1 x 1/4	1.36
1 x 5/16	1.70
1 x 3/8	2.04
1 x 7/16	2.38
1 x 1/2	2.72
1 x 5/8	3.39
1 x 3/4	4.08
1 x 7/8	4.76
1 1/8 x 1/8	0.80
1 1/8 x 3/16	1.14
1 1/8 x 1/4	1.52
1 1/8 x 3/8	2.29
1 1/8 x 1/2	3.05
1 1/8 x 5/8	3.84
1 1/8 x 3/4	4.58
1 1/8 x 1	6.10
1 1/4 x 1/16	0.44
1 1/4 x 3/32	0.64
1 1/4 x 1/8	0.88
1 1/4 x 3/16	1.27
1 1/4 x 1/4	1.71
1 1/4 x 5/16	2.13
1 1/4 x 3/8	2.54
1 1/4 x 7/16	2.97
1 1/4 x 1/2	3.39
1 1/4 x 5/8	4.26
1 1/4 x 3/4	5.09
1 1/4 x 1	4.79
1 3/8 x 1/4	1.88
1 3/8 x 3/8	2.80
1 3/8 x 7/16	3.29

1 3/8 x 1/2	3.74
1 1/2 x 1/8	1.06
1 1/2 x 5/32	1.28
1 1/2 x 3/16	1.53
1 1/2 x 1/4	2.05
1 1/2 x 5/16	2.54
1 1/2 x 3/8	3.05
1 1/2 x 7/16	3.56
1 1/2 x 1/2	4.11
1 1/2 x 5/8	5.09
1 1/2 x 3/4	6.10
1 1/2 x 7/8	7.13
1 1/2 x 1	8.15
1 1/2 x 1 1/4	10.18
1 5/8 x 1/4	2.22
1 5/8 x 7/16	3.88
1 5/8 x 1/2	4.40
1 5/8 x 1	8.88
1 5/8 x 1 1/2	13.26
1 3/4 x 1/8	1.24
1 3/4 x 3/16	1.79
20mm x 12mm	2.03
1 3/4 x 1/4	2.38
1 3/4 x 3/8	3.56
1 3/4 x 1/2	4.75
1 3/4 x 5/8	5.95
1 3/4 x 3/4	7.11
1 3/4 x 7/8	8.30
1 3/4 x 1	9.49
1 3/4 x 1 1/8	10.73
1 3/4 x 1 1/4	11.97
1 3/4 x 1 1/2	14.24
1 7/8 x 1/8	1.32
2 x 3/32	1.01
2 x 1/8	1.41
2 x 3/16	2.04
2 x 1/4	2.72
2 x 5/16	3.39
2 x 3/8	4.06
2 x 7/16	4.75
2 x 1/2	5.43
2 x 5/8	6.79
2 x 3/4	8.12
2 x 7/8	9.49
2 x 1	10.86
2 x 1 1/4	13.57
2 x 1 1/2	16.29
2 x 1 3/4	19.06
2 1/8 x 1/8	1.50
2 1/4 x 1/8	1.59
2 1/4 x 3/16	2.29

2 1/4 x 1/4	3.07
2 1/4 x 5/16	3.84
2 1/4 x 3/8	4.58
2 1/4 x 1/2	6.12
2 1/4 x 3/4	9.17
2 1/4 x 1 1/4	15.47
2 1/2 x 1/8	1.77
2 1/2 x 3/16	2.54
2 1/2 x 1/4	3.41
2 1/2 x 3/8	5.09
2 1/2 x 7/16	5.98
2 1/2 x 1/2	6.79
2 1/2 x 5/8	8.48
2 1/2 x 3/4	10.18
2 1/2 x 1	13.57
2 1/2 x 1 1/2	20.36
2 1/2 x 2	27.14
2 3/4 x 1/8	1.95
2 3/4 x 3/8	5.63
2 3/4 x 1/2	7.51
2 3/4 x 3/4	11.27
3 x 1/8	2.13
3 x 3/16	3.05
3 x 1/4	4.09
3 x 5/16	5.10
3 x 3/8	6.10
3 x 7/16	7.17
3 x 1/2	8.15
3 x 3/4	12.20
3 x 1	16.31
3 x 1 1/4	20.51
3 x 1 1/2	24.58
3 x 1 3/4	28.64
3 x 2	32.62
3 1/4 x 1/8	2.30
3 1/4 x 3/16	3.30
3 1/4 x 1/4	4.43
3 1/2 x 1/8	2.36
3 1/2 x 3/16	3.57
3 1/2 x 3/8	8.37
3 1/2 x 7/16	7.11
3 1/2 x 1/2	9.51
3 1/2 x 3/4	2.39
3 1/2 x 1 1/4	4.78
4 x 1/8	2.73
4 x 1/4	5.46
4 x 3/8	8.14
4 x 1/2	10.86
4 x 3/4	16.28
4 x 1	21.72
4 x 1 1/2	32.80

4 x 2	43.45
4 1/2 x 1/2	12.26
4 1/2 x 5/8	16.22
5 x 1/4	6.81
6 x 5/8	21.62
6 x 3/4	24.40
6 x 1	32.62

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