

Aluminium Bronze - CA104 / CW307G

Round Bar

Properties

Stock		Chemical Properties	
Dia (in)	Weight/m (Kg)	Element	Chemical composition %
3/4	2.19	Iron (Fe)	4.0 - 5.50
7/8	2.97	Aluminium (Al)	8.50 - 11.0
1	3.88	Manganese (Mn)	0.50 typical
1 1/8	4.89	Nickel (Ni)	4.0 - 5.50
1 1/4	6.10	Copper (Cu)	Balance
1 3/8	7.32		
1 1/2	8.73	Mechanical Properties	
1 5/8	10.24	Property	Value
1 3/4	11.88	Proof stress	400 - 530 MPa
1 7/8	13.65	Tensile strength	600 - 760 Mpa
2	15.52	Elongation	15 - 5%
2 1/4	19.66	Hardness Vickers	170 to 220 HV
2 1/2	24.28	Physical Properties	
2 3/4	29.36	Property	Value
3	34.95	Density	7.58 Kg/m ³
3 1/4	41.01	Melting point	1035°C
3 1/2	47.57	Modulus of elasticity	115 GPa
3 3/4	54.62	Thermal conductivity	37.7 W/m.K
4	62.15		
4 1/4	70.20		
4 1/2	78.68		
4 3/4	87.64		
5	97.12		
5 1/4	107.10		
5 1/2	117.50		
6	139.90		
6 1/2	164.15		
7	190.36		
7 1/2	218.62		
8	248.64		

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