



Phosphor Bronze Phosphor Bronze Technical Data

Material and Specification	Tensile Strength Ton/Ins ²	Vickers Hardness (HV)	Description & Application		
Phos-Bronze Rod BS2874/PB102 Hard	32		This alloy has high corrosion resistance qualities with good mechanical properties. Poor machinability, used in bearings where subjection to friction is required.		
Phos-Bronze Sheets BS2870/PB102 Hard	38		Good Mechanical properties, combined with resistance to corrosion and corrosion fatigue. Used for springs and instrument components.		
Approximate Weights					
Size/Inches	Dia Kg/ft	Square Kg/ft	A/F Hex Kg/ft	Hexagon Whitworth	
				Size/Inches	Kg/ft
1/8	0.022	-	-	0.338 A/F	0.172
3/16	0.050	0.060	0.052	0.445 A/F	0.296
1/4	0.086	0.109	0.094	0.525 A/F	0.419
5/16	0.134	0.171	0.146	0.601 A/F	0.548
3/8	0.194	0.247	0.211	0.710 A/F	0.766
7/16	0.264	0.336	0.287	0.820 A/F	1.02
1/2	0.345	0.439	0.378	0.919 A/F	1.28
9/16	0.436	-	-	1.01 A/F	1.55
5/8	0.539	0.684	0.589	1.10 A/F	1.84
3/4	0.775	0.988	0.857	1.20 A/F	2.19
7/8	1.05	1.34	1.16	1.30 A/F	2.57
1	1.37	1.76	1.52	1.479 A/F	3.33
1.1/8	1.74	2.22	1.91	1.670 A/F	4.24
1.1/4	2.16	2.74	2.36	-	-
1.3/8	2.61	3.32	2.86	-	-
1.1/2	3.10	3.95	3.40	-	-
1.5/8	3.64	-	-	-	-
1.3/4	4.22	5.39	-	-	-
1.7/8	4.85	-	-	-	-
2	5.52	7.03	6.07	-	-
2.1/8	6.23	-	-	-	-
2.1/4	6.89	8.89	-	-	-
2.3/8	7.78	-	-	-	-
2.1/2	8.63	10.98	-	-	-
2.3/4	10.44	13.29	-	-	-
3	12.42	15.82	-	-	-
3.1/4	14.51	-	-	-	-
3.1/2	16.78	-	-	-	-
3.3/4	18.82	-	-	-	-
4	21.75	28.12	-	-	-
4.1/2	27.76	-	-	-	-
5	34.24	-	-	-	-
6	49.21	-	-	-	-
Flat Size	Kg/ft	Size	Kg/ft	Size	Kg/ft
1/2 X 1/8	0.108	1 X 3/4	1.31	1.3/4 X 1/8	0.385
X 3/16	0.162	1.1/4 X 1/8	0.274	X 3/16	0.576
X 1/4	0.216	X 3/16	0.412	X 1/4	0.711
X 3/8	0.324	X 1/4	0.548	X 3/8	1.13
3/4 X 1/8	0.164	X 3/8	0.825	X 1/2	1.54
X 3/16	0.247	X 1/2	1.10	2 X 1/8	0.439
X 1/4	0.328	1.1/2 X 1/8	0.328	X 3/16	0.657
X 3/8	0.494	X 3/16	0.494	X 1/4	0.880
X 1/2	0.657	X 1/4	0.657	X 3/8	1.31
1 X 1/8	0.216	X 3/8	0.988	X 1/2	1.75
X 3/16	0.324	X 1/2	1.31	X 5/8	2.19
X 1/4	0.440	X 3/8	1.65	X 3/4	2.63
X 3/8	0.657	X 3/4	1.98	X 1	3.51
X 1/2	0.880	X 1	2.63	X 1.1/2	5.27
X 5/8	1.09	-	-	-	-

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