



NOCKERS
 ENGINEERING PRODUCTS

PHOSPHOR BRONZE STRIP TO BS 2870:1980

Table 1: Chemical Composition

Grade	Composition in %						
	Element	Sn	P	Pb	Zn	Other	Cu
PB101	Min.	3.5	0.02	-	-	-	Remainder
	Max.	4.5	0.4	0.02	0.30	0.50	
PB102	Min.	4.5	0.02	-	-	-	Remainder
	Max.	5.5	0.4	0.02	0.30	0.50	
PB103	Min.	5.5	0.02	-	-	-	Remainder
	Max.	7.5	0.4	0.02	0.30	0.50	

Table 2: Mechanical Values – PB102

Temper	Hardness HV		Tensile MPa		Elongation
	Min.	Max.	Min.	Max.	% Min
Annealed	-	85	310	350	45
¼ Hard	110	160	350	495	35
½ Hard	160	180	495	570	10
Hard	180	200	570	645	4
Extra Hard (Spring Temper)	200	220	645	725	2

BERYLLIUM COPPER STRIP TO BS 2870:1980

Table 1: Chemical Composition

Grade	Composition in %			
	Element	Be	Ni + Co	Cu
CB101	Min.	1.70	0.05	Balance
	Max.	1.90	0.40	

Table 2: Mechanical Values

Typical Before Hardening					After Hardening			
Temper	Hardness HV		Tensile MPa	Elongation	Hardness HV		Tensile MPa	Elongation
	Min.	Max.	Min.	% Min	Min.	Max.	Min.	% Min
Annealed	85	140	415	35	350	410	1050	3
¼ Hard	140	190	490	15	360	420	1100	2
½ Hard	190	225	590	6	370	430	1160	1
Full Hard	225	270	695	2	385	450	1230	-