

CuSn6 Phosphor Bronze

PB103 CW452K C51900

Round and Profiled Wire



Size Range

Min	Max
1.20mm	10.8 mm

Similar Specifications

Material	Normal Composition	BS : 2873	BS EN 12166	UNS
CuSn6	94% copper, 6% Tin	PB103	CW452K	C51900

Phosphor Bronze CuSn6 Metal Alloy Specification

Composition in % (m/m)									Density g/cm ³ approx.
Element	Cu	Al	Fe	Ni	Pb	Sn	Zn	Others total	
min	Rem.	-	-	0,01	-	5,5	-	-	8,8
max	-	0,1	0,2	0,4	0,02	7,0	0,2	0,2	

Phosphor Bronze CuSn6 Tensile Strength Specification

Previous Condition Designation	Material Condition	Nominal diameter			Tensile strength	
		mm			R _m N/mm ²	
		from	over	up to and including	min	max
Soft	R370	-	0,5	1,5	370	470
	R360	-	1,5	4,0	360	440
	H085	1,5	-	4,0	-	-
	R340	-	4,0	20,0	340	420
	H080	-	4,0	20,0	-	-
Quarter Hard	R460	-	0,5	1,5	460	560
	R430	-	1,5	4,0	430	530
	H125	1,5	-	4,0	-	-
	R420	-	4,0	20,0	420	520
	H120	-	4,0	20,0	-	-
Half Hard	R560	-	0,5	1,5	560	670
	R530	-	1,5	4,0	530	630
	H165	1,5	-	4,0	-	-
	R510	-	4,0	8,0	510	610
	H160	-	4,0	8,0	-	-
Three Quarter Hard	R670	-	0,5	1,5	670	790
	R630	-	1,5	4,0	630	740
	H190	1,5	-	4,0	-	-
	R600	-	4,0	8,0	600	710
	H185	-	4,0	8,0	-	-
Hard	R790	-	0,5	1,5	790	950
	R740	-	1,5	4,0	740	900
	H215	1,5	-	4,0	-	-
Spring Hard	R950	-	0,5	1,5	950	-
	R900	-	1,5	4,0	900	-
	H245	1,5	-	4,0	-	-

Other sizes and tempers available by agreement.

Every care has been taken to ensure the accuracy of this publication however, the information presented in it does not form part of any contract and our warranties and liabilities are stated exclusively in our General Conditions of Sale. Continuous development may necessitate changes in technical data without notice.

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