

CuSn8 Phosphor Bronze

PB104 CW453K C52100

Round and Profiled Wire



Size Range

Min	Max
1.20mm	10.8 mm

Similar Specifications

Material	Normal Composition	BS : 2873	BS EN 12166	UNS
CuSn8	92% copper, 8% Tin	PB104	CW453K	C52100

Phosphor Bronze CuSn8 Metal Alloy Specification

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

Phosphor Bronze CuSn8 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	R420	-	0,5	1,5	420	520
	R400	-	1,5	4,0	400	490
	H090	1,5	-	4,0	-	-
	R390	-	4,0	20,0	390	470
	H085	-	4,0	20,0	-	-
Quarter Hard	R510	-	0,5	1,5	510	610
	R490	-	1,5	4,0	490	590
	H145	1,5	-	4,0	-	-
	R460	-	4,0	20,0	460	560
	H140	-	4,0	20,0	-	-
Half Hard	R610	-	0,5	1,5	610	720
	R590	-	1,5	4,0	590	690
	H180	1,5	-	4,0	-	-
	R560	-	4,0	8,0	560	660
	H175	-	4,0	8,0	-	-
Three Quarter Hard	R720	-	0,5	1,5	720	840
	R690	-	1,5	4,0	690	790
	H200	1,5	-	4,0	-	-
	R650	-	4,0	8,0	650	750
	H195	-	4,0	8,0	-	-
Hard	R840	-	0,5	1,5	840	950
	R790	-	1,5	4,0	790	900
	H230	1,5	-	4,0	-	-
Spring Hard	R950	-	0,5	1,5	950	-
	R900	-	1,5	4,0	900	-
	H265	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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