



**BRONMETAL**

**Bronze Br**

Product format:

Extruded tube/calibration

Technical characteristics:

Copper tubes extruded/calibration round for decorative applications



## MECHANICAL CHARACTERISTICS

Designations		Wall thickness	Tensile strength	Yield limit at 0.2%		Enlogation	Hardness				
Material		Metallurgical state	t	R <sub>m</sub>	R <sub>p0.2</sub>		A	HV		HB	
Symbol	numerical		mm	N/mm <sup>2</sup>	N/mm <sup>2</sup>		%	mín.	máx.	mín.	máx.
		máx.	mín.	mín.	máx.	mín.	mín.	máx.	mín.	máx.	
CuSn6	CW452K	<b>M</b>	<b>20</b>	-	-	-	-	-	-	-	-
		R340 <sup>a</sup>	10	340	-	260	50	-	-	-	-
		H070 <sup>a</sup>	10	-	-	-	-	70	105	65	100
		R400	5	400	220	-	30	-	-	-	-
		H105	5	-	-	-	-	105	150	100	145
		R490	3	490	390	-	10	-	-	-	-
		H140	3	-	-	-	-	140	175	135	170
		R580	2	580	500	-	5	-	-	-	-
		H170	2	-	-	-	-	170	-	165	-
CuSn8	CW453K	<b>M</b>	<b>20</b>	-	-	-	-	-	-	-	-
		R380 <sup>a</sup>	10	380	-	290	55	-	-	-	-
		H080 <sup>a</sup>	10	-	-	-	-	80	110	75	105
		R450	5	450	250	-	25	-	-	-	-
		H115	5	-	-	-	-	115	160	110	155
		R520	3	520	440	-	10	-	-	-	-
		H155	3	-	-	-	-	155	190	150	185
		R590	2	590	520	-	5	-	-	-	-
		H180	2	-	-	-	-	180	-	175	-

Designations		Wall thickness	Tensile strength	Yield limit at 0.2%		Enlogation	Hardness					
Material		Metallurgical state	t	R <sub>m</sub>	R <sub>p0.2</sub>		A	HV		HB		
Symbol	Numerical		mm	N/mm <sup>2</sup>	N/mm <sup>2</sup>		%	mín.	máx.	mín.	máx.	
			máx.	mín.	mín.	máx.	mín.					máx.
CuSn4Pb2P	CW455K	M	20	-	-	-	-	-	-	-	-	
		R430	10	430	220	-	25	-	-	-	-	
		H125	10	-	-	-	-	125	155	120	150	
		R520	5	520	430	-	8	-	-	-	-	
		H155	5	-	-	-	-	155	-	150	-	
CuSn8P CuSn8PbP	CW459K CW460K	M	20	-	-	-	-	-	-	-	-	
		R460	10	460	280	-	30	-	-	-	-	
		H130	10	-	-	-	-	130	165	125	160	
		R550	5	550	480	-	12	-	-	-	-	
		H165	5	-	-	-	-	165	195	160	190	
		R620	3	620	540	-	5	-	-	-	-	
		H180	3	-	-	-	-	180	-	175	-	

<sup>a</sup> In the annealed condition.  
NOTE 1 - 1 N/mm<sup>2</sup> equal to 1 Mpa.