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Technical characteristics

Designations			Wall Thickness t mm max.	Tensile Strength R_m N/mm^2 min.	Proof stress of 0,2% $R_{p0.2}$ N/mm^2		Elongation A % min.	Hardness			
Material		Metallurgical State						HV		HB	
Symbolic	Numerical				min.	max.		min.	max.	min.	max.
CuSn6	CW452K	M	20	–	–	–	–	–	–	–	–
		R340[a]	10	340	–	260	50	–	–	–	–
		H070[a]	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	–

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Designations			Wall Thickness t mm max.	Tensile Strength R_m N/mm² min.	Proof stress of 0,2% $R_{p0.2}$ N/mm²		Elongation A % min.	Hardness			
Material		Metallurgical State						HV		HB	
Symbolic	Numerical				min.	max.		min.	max.	min.	max.
CuSn8	CW453K	M	20	–	–	–	–	–	–	–	–
		R380[a]	10	380	–	290	55	–	–	–	–
		H080[a]	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	–

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Designations			Wall Thickness t mm max.	Tensile Strength R_m N/mm² min.	Proof stress of 0,2% $R_{p0.2}$ N/mm²		Elongation A % min.	Hardness			
Material		Metallurgical State						HV		HB	
Symbolic	Numerical				min.	max.		min.	max.	min.	max.
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	–

[a] In annealed state.

NOTA 1 – 1 N/mm² equivalent to 1 Mpa.