

Technical characteristics

Designations		Metallurgical State	Nominal thickness mm		Tensile Strength R_m N/mm ²		Yield Limit at 0,2% $R_{p0.2}$ N/mm ²	Elongation $A_{50\text{ mm}}$ para Thicknesses up to 2,5mm inc. % min.	A for thicknesses greater than 2.5mm % min.	Hardness HV		Grain size mm	
Material			from	up to and including	min.	max				min.	max	min.	max.
Symbolic	Numerical												
CuSn4	CW450K	R290	0,1	5	290	390	(max. 190)	40	50	-	-	-	-
		H070			-	-	-	-	-	70	100	-	-
		R390	0,1	5	390	490	(min. 210)	11	13	-	-	-	-
		H115			-	-	-	-	-	115	155	-	-
		R480	0,1	5	480	570	(min. 420)	4	5	-	-	-	-
		H150			-	-	-	-	-	150	180	-	-
		R540	0,1	2	540	630	(min. 490)	3	-	-	-	-	-
		H170			-	-	-	-	-	170	200	-	-
		R610	0,1	2	610	-	(min. 540)	-	-	-	-	-	-
		H190			-	-	-	-	-	190	-	-	-

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Material			from	up to and including	min.	max				min.	max	min.	max.
Symbolic	Numerical												
CuSn5	CW451K	R310	0,1	5	310	390	(max. 250)	45	55	-	-	-	-
		H075			-	-	-	-	-	75	105	-	-
		R400	0,1	5	400	500	(min. 240)	14	17	-	-	-	-
		H120			-	-	-	-	-	120	160	-	-
		R490	0,1	5	490	580	(min. 430)	8	10	-	-	-	-
		H160			-	-	-	-	-	160	190	-	-
		R550	0,1	2	550	640	(min. 510)	4	-	-	-	-	-
		H180			-	-	-	-	-	180	210	-	-
		R630	0,1	2	6340	720	(min. 600)	2	-	-	-	-	-
		H200			-	-	-	-	-	200	230	-	-
		R690	0,1	2	690	-	(min. 670)	-	-	-	-	-	-
		H220			-	-	-	-	-	220	-	-	-

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Material			from	up to and including	min.	max				min.	max	min.	max.
Symbolic	Numerical												
CuSn6	CW452K	R350	0,1	5	350	420	(max. 300)	45	55	-	-	-	-
		H080			-	-	-	-	-	80	110	-	-
		R420	0,1	5	420	520	(min. 260)	17	20	-	-	-	-
		H125			-	-	-	-	-	125	165	-	-
		R500	0,1	5	500	590	(min. 450)	8	10	-	-	-	-
		H160			-	-	-	-	-	160	190	-	-
		R560	0,1	2	560	650	(min. 500)	5	-	-	-	-	-
		H180			-	-	-	-	-	180	210	-	-
		R640	0,1	2	640	730	(min. 600)	3	-	-	-	-	-
		H200			-	-	-	-	-	200	230	-	-
		R720	0,1	2	720	-	(min. 690)	-	-	-	-	-	-
		H220			-	-	-	-	-	220	-	-	-

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Material			from	up to and including	min.	max				min.	max	min.	max.	
Symbolic	Numerical													
CuSn8	CW453K	R370	0,1	5	370	450	(max. 300)	50	60	-	-	-		
		H090			-	-	-	-	-	90	120	-		
		R450	0,1	5	450	550	(min. 280)	20	23	-	-	-		
		H135			-	-	-	-	-	135	175	-		
		R540	0,1	5	540	630	(min. 460)	13	15	-	-	-		
		H170			-	-	-	-	-	170	200	-		
		R600	0,1	5	600	690	(min. 530)	5	7	-	-	-		
		H190			-	-	-	-	-	190	220	-		
		R660	0,1	2	660	750	(min. 620)	3	-	-	-	-	-	
		H210			-	-	-	-	-	-	210	240	-	
		R740	0,1	2	740	-	(min. 700)	2	-	-	-	-	-	
		H230			-	-	-	-	-	-	230	-	-	