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Technical characteristics

Designations			Nominal thickness mm		Tensile Strength R_m N/mm^2		Proof stress of0,2% $R_{p0.2}$ N/mm^2	Elongation		Hardness HV		Grain size mm	
Material		Metallurgical State						A_{50mm} For thicknesses to 2.5mm included % min.	A For thicknesses Over 2.5mm % min.				
Symbolic	Numerical		from	up to and including	min.	max.				min.	max.	min.	max.
CuZn5	CW500L	R230	0,2	5	230	280	(max. 130)	36	45	–	–	–	–
		H045			–	–	–	–	–	45	75	–	–
		R270	0,2	5	270	350	(min. 200)	12	19	–	–	–	–
		H075			–	–	–	–	–	75	110	–	–
		R340	0,2	5	340	–	(min. 280)	4	8	–	–	–	–
		H110			–	–	–	–	–	110	–	–	–
CuZn10	CW501L	R240	0,2	5	240	290	(max.140)	36	45	–	–	–	–
		H050			–	–	–	–	–	50	80	–	–
		R280	0,2	5	280	360	(min. 200)	13	20	–	–	–	–
		H080			–	–	–	–	–	80	110	–	–
		R350	0,2	5	350	–	(min. 290)	4	8	–	–	–	–
		H110			–	–	–	–	–	110	–	–	–

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Designations			Nominal thickness mm		Tensile Strength R_m N/mm^2		Proof stress of0,2% $R_{p0.2}$ N/mm^2	Elongation		Hardness HV		Grain size mm	
Material		Metallurgical State						A_{50mm} For thicknesses to 2.5mm included % min.	A For thicknesses Over 2.5mm % min.				
Symbolic	Numerical		from	up to and including	min.	max.				min.	max.	min.	max.
CuZn15	CW502L	R260	0,2	5	260	310	(max. 170)	36	45	–	–	–	–
		H055			–	–	–	–	–	55	85	–	–
		G010	0,2	1	(340)		(190)	(50)	–	–	105	–	0,015
		G020	0,2	2	(300)		(125)	(50)	–	–	85	0,015	0,030
		G035			(290)		(110)	(50)	–	–	75	0,025	0,050
		R300	0,2	5	300	370	(min. 150)	16	25	–	–	–	–
		H085			–	–	–	–	–	85	115	–	–
		R350	0,2	5	350	420	(min. 250)	4	12	–	–	–	–
		H105			–	–	–	–	–	105	135	–	–
		R410	0,2	5	410	–	(min. 360)	–	–	–	–	–	–
		H125			–	–	–	–	–	125	–	–	–

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Designations			Nominal thickness mm		Tensile Strength R_m N/mm^2		Proof stress of0,2% $R_{p0.2}$ N/mm^2	Elongation		Hardness HV		Grain size mm	
Material		Metallurgical State						A_{50mm} For thicknesses to 2.5mm included % min.	A For thicknesses Over 2.5mm % min.				
Symbolic	Numerical		from	up to and including	min.	max.				min.	max.	min.	max.
CuZn20	CW503L	R270	0,2	5	270	320	(max. 150)	38	48	–	–	–	–
		H055			–	–	–	–	–	55	85	–	–
		G010	0,2	1	(340)		(190)	(50)	–	–	105	–	0,015
		G020	0,2	2	(300)		(125)	(50)	–	–	85	0,015	0,030
		G035			(290)		(110	(50)	–	–	75	0,025	0,050
		R320	0,2	5	320	400	(min. 200)	20	28	–	–	–	–
		H085			–	–	–	–	–	85	120	–	–
		R400	0,2	5	400	480	(min. 320)	5	12	–	–	–	–
		H120			–	–	–	–	–	120	155	–	–
		R480	0,2	2	480	–	(min. 440)	–	–	–	–	–	–
		H155			–	–	–	–	–	155	–		

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Designations			Nominal thickness mm		Tensile Strength R_m N/mm^2		Proof stress of0,2% $R_{p0.2}$ N/mm^2	Elongation		Hardness HV		Grain size mm	
Material		Metallurgical State						A_{50mm} For thicknesses to 2.5mm included % min.	A For thicknesses Over 2.5mm % min.				
Symbolic	Numerical		from	up to and including	min.	max.				min.	max.	min.	max.
CuZn30	CW505L	R270	0,2	5	270	350	(max. 160)	40	50	–	–	–	–
		H055			–	–	–	–	–	55	90	–	–
		G010	0,2	1	(410)		(210)	(40)	–	–	120	–	0,015
		G020	0,2	2	(360)		(150)	(40)	–	–	95	0,015	0,030
		G030			(340)		(130)	(40)	–	–	90	0,020	0,040
		G050			(330)		(110)	(40)	–	–	80	0,035	0,070
		G075			(310)		(90)	(50)	–	–	70	0,050	0,100
		R350	0,2	5	350	430	(min. 170)	21	33	–	–	–	–
		H095			–	–	–	–	–	95	125	–	–
		R410	0,2	5	410	490	(min. 260)	9	15	–	–	–	–
		H120			–	–	–	–	–	120	155	–	–
		R480	0,2	2	480	–	(min. 430)	–	–	–	–	–	–
		H150			–	–	–	–	–	150	–	–	–

Designations			Nominal thickness mm		Tensile Strength R_m N/mm^2		Proof stress of0,2% $R_{p0.2}$ N/mm^2	Elongation		Hardness HV		Grain size mm	
Material		Metallurgical State						A_{50mm} For thicknesses to 2.5mm included % min.	A For thicknesses Over 2.5mm % min.				
Symbolic	Numerical		from	up to and including	min.	max.				min.	max.	min.	max.
CuZn33	CW506L	R280	0,2	5	280	380	(max. 170)	40	50	–	–	–	–
		H055			–	–	–	–	–	55	90	–	–
		G010	0,2	1	(410)		(210)	(40)	–	–	120	–	0,015
		G020	0,2	2	(360)		(150)	(40)	–	–	95	0,015	0,030
		G030			(340)		(130)	(40)	–	–	90	0,020	0,040
		G050			(330)		(110)	(40)	–	–	80	0,035	0,070
		R350	0,2	5	350	430	(min. 170)	23	31	–	–	–	–
		H095			–	–	–	–	–	95	125	–	–
		R420	0,2	5	420	500	(min. 300)	6	13	–	–	–	–
		H125			–	–	–	–	–	120	155	–	–
		R500	0,2	2	500	–	(min. 450)	–	–	–	–	–	–
		H155			–	–	–	–	–	155	–	–	–

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Designations			Nominal thickness mm		Tensile Strength R_m N/mm^2		Proof stress of0,2% $R_{p0.2}$ N/mm^2	Elongation		Hardness HV		Grain size mm	
Material		Metallurgical State						A_{50mm} For thicknesses to 2.5mm included % min.	A For thicknesses Over 2.5mm % min.				
Symbolic	Numerical		from	up to and including	min.	max.				min.	max.	min.	max.
CuZn36 CuZn37	CW507L CW508L	R300	0,2	5	300	370	(max. 180)	38	46	–	–	–	–
		H055			–	–	–	–	–	55	90	–	–
		G010	0,2	1	(410)		(210)	(40)	–	–	120	–	0,015
		G020	0,2	2,0	(360)		(150)	(40)	–	–	95	0,015	0,030
		G030			(340)		(130)	(40)	–	–	90	0,020	0,040
		G050			(330)		(110)	(40)	–	–	80	0,035	0,070
		R350	0,2	5	350	440	(min. 170)	19	28	–	–	–	–
		H095			–	–	–	–	–	95	125	–	–
		R410	0,2	5	410	490	(min. 300)	8	12	–	–	–	–
		H125			–	–	–	–	–	120	155	–	–
		R480	0,2	2	480	560	(min. 430)	3	–	–	–	–	–
		150			–	–	–	–	–	150	180	–	–
		R550	0,2	2	550	–	(min. 500)	–	–	–	–	–	–
		H170			–	–	–	–	–	170	–	–	–

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Designations			Nominal thickness mm		Tensile Strength R_m N/mm^2		Proof stress of0,2% $R_{p0.2}$ N/mm^2	Elongation		Hardness HV		Grain size mm	
Material		Metallurgical State						A_{50mm} For thicknesses to 2.5mm included % min.	A For thicknesses Over 2.5mm % min.				
Symbolic	Numerical		from	up to and including	min.	max.				min.	max.	min.	max.
CuZn40	CW509L	R340	0,3	10	340	420	(max. 240)	33	43	–	–	–	–
		H085			–	–	–	–	–	85	115	–	–
		R400	0,3	10	400	480	(min. 200)	15	23	–	–	–	–
		H110			–	–	–	–	–	110	140	–	–
		R470	0,3	5	470	–	(min. 390)	6	12	–	–	–	–
		H140			–	–	–	–	–	140	–	–	–
CuZn35Pb1 CuZn37Pb0,5 CuZn37Pb2	CW600N CW604N CW606N	R290	0,3	5	290	370	(max. 200)	40	50	–	–	–	–
		H060			–	–	–	–	–	60	110	–	–
		R370	0,3	5	370	440	(min. 200)	19	28	–	–	–	–
		H110			–	–	–	–	–	110	140	–	–
		R440	0,3	2	440	540	(min. 370)	5	12	–	–	–	–
		H140			–	–	–	–	–	140	170	–	–
		R540	0,3	2	540	–	(min.490)	–	–	–	–	–	–
		H170			–	–	–	–	–	170	–	–	–

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Designations			Nominal thickness mm		Tensile Strength R_m N/mm^2		Proof stress of0,2% $R_{p0.2}$ N/mm^2	Elongation		Hardness HV		Grain size mm	
Material		Metallurgical State						A_{50mm} For thicknesses to 2.5mm included % min.	A For thicknesses Over 2.5mm % min.				
Symbolic	Numerical		from	up to and including	min.	max.				min.	max.	min.	max.
CuZn39Pb2	CW612N	R360	0,3	5	360	440	(max. 270)	30	40	–	–	–	–
		H090			–	–	–	–	–	90	120	–	–
		R420	0,3	5	420	500	(min. 270)	12	20	–	–	–	–
		H120			–	–	–	–	–	120	150	–	–
		R490	0,3	5	490	570	(min. 420)	–	9	–	–	–	–
		H150			–	–	–	–	–	150	180	–	–
		R560	0,3	2	560	–	(min. 510)	–	–	–	–	–	–
		H175			–	–	–	–	–	175	–	–	–

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Designations			Nominal thickness mm		Tensile Strength R_m N/mm^2		Proof stress of0,2% $R_{p0.2}$ N/mm^2	Elongation		Hardness HV		Grain size mm	
Material		Metallurgical State						A_{50mm} For thicknesses to 2.5mm included % min.	A For thicknesses Over 2.5mm % min.				
Symbolic	Numerical		from	up to and including	min.	max.				min.	max.	min.	max.
CuZn38Pb2 CuZn39Pb0,5	CW608N CW610N	R340	0,3	10	340	420	(max. 240)	33	43	–	–	–	–
		H075			–	–	–	–	–	75	110	–	–
		R400	0,3	10	400	480	(min. 200)	14	23	–	–	–	–
		H110			–	–	–	–	–	110	140	–	–
		R470	0,3	5	470	550	(min. 390)	5	12	–	–	–	–
		H140			–	–	–	–	–	140	170	–	–
		R540	0,3	2	540	–	(min. 490)	–	–	–	–	–	–
		H165			–	–	–	–	–	165	–	–	–
CuZn20Al2As	CW702R	R330	3	15	330	–	(min. 90)	–	30	–	–	–	–
		H070			–	–	–	–	–	70	105	–	–
		R390	3	15	390	–	(min. 240)	–	25	–	–	–	–
		H100			–	–	–	–	–	100	–	–	–