

Technical characteristics

Designations		Metallurgical State	Nominal thickness mm		Tensile Strength R_m N/mm ²		Proof stress of 0,2% $R_{p0.2}$ N/mm ²	Elongation		Hardness HV		Grain size mm	
Material			from	up to and including	min.	max.		For thicknesses to 2.5mm included % min.	A For thicknesses Over 2.5mm % min.	min.	max.	min.	max.
Symbolic	Numerical												
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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Material			from	up to and including	min.	max.		A_{50mm} For thicknesses to 2.5mm included % min.	A For thicknesses Over 2.5mm % min.	min.	max.	min.	max.
Symbolic	Numerical												
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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Material	Numerical		from	up to and including	min.	max.		For thicknesses to 2.5mm included % min.	A For thicknesses Over 2.5mm % min.	min.	max.	min.	max.
Symbolic		Metallurgical State											
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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Material	Numerical		from	up to and including	min.	max.		A_{50mm} For thicknesses to 2.5mm included % min.	A For thicknesses Over 2.5mm % min.	min.	max.	min.	max.
Symbolic		Symbolic											
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	–	–	–

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Material	Numerical		from	up to and including	min.	max.		A_{50mm} For thicknesses to 2.5mm included % min.	A For thicknesses Over 2.5mm % min.	min.	max.	min.	max.
Symbolic		Symbolic					Symbolic						
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	-	-	-

Designations		Metallurgical State	Nominal thickness mm		Tensile Strength R_m N/mm ²		Proof stress of 0,2% $R_{p0.2}$ N/mm ²	Elongation		Hardness HV		Grain size mm	
Material			from	up to and including	min.	max.		A_{50mm} For thicknesses to 2.5mm included % min.	A For thicknesses Over 2.5mm % min.	min.	max.	min.	max.
Symbolic	Numerical												
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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Material			from	up to and including	min.	max.		For thicknesses to 2.5mm included % min.	A For thicknesses Over 2.5mm % min.	min.	max.	min.	max.		
Symbolic	Numerical														
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	-	-	-			

Designations		Nominal thickness mm	Tensile Strength R_m N/mm ²		Proof stress of 0,2% $R_{p0.2}$ N/mm ²	Elongation		Hardness HV		Grain size mm			
Material			Metallurgical State	min.		max.	A _{50mm} For thicknesses to 2.5mm included % min.	A For thicknesses Over 2.5mm % min.	min.	max.	min.	max.	
Symbolic	Numerical	from			up to and including								
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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Material	Symbolic		Numerical	from	up to and including	min.		max.	A_{50mm} For thicknesses to 2.5mm included % min.	A For thicknesses Over 2.5mm % min.	min.	max.	min.	max.	
CuZn38Pb2 CuZn39Pb0,5		CW608N CW610N					R340								0,3
	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	-	-	-			