

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		Hardness HV		Grain size mm	
Material			from	up to and including	min.	max.		$A_{50\text{ mm}}$ for thicknesses up to 2.5mm inc. % min.	A for thicknesses greater than 2.5mm % min.	min.	max.	min.	max.
Symbolic	Numerical												
CuBe2	CW101C	R410	1	15	410	–	(max. 250)	20	20	–	–	–	–
		H090			–	–	–	–	–	90	150	–	–
		R1130	1	15	1130	–	(min. 890)	3	3	–	–	–	–
		H340			–	–	–	–	–	340	410	–	–
		R580	1	15	580	–	(min. 510)	8	8	–	–	–	–
		H180			–	–	–	–	–	180	250	–	–
		R1200	1	15	1200	–	(min.980)	2	2	–	–	–	–
		H360			–	–	–	–	–	360	420	–	–

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Material			Metallurgical State	min.		max	for thicknesses up to 2.5mm inc. % min.	A for thicknesses greater than 2.5mm % min.	min.	max	min.	max.	
Symbolic	Numerical	from			up to and including								
CuCo1Ni1Be CuCo2Be CuNi2Be	CW103C CW104C CW110C	R240	1	15	240	–	(max. 220)	20	20	–	–	–	–
		H060			–	–	–	–	–	60	130	–	–
		R480	1	15	480	–	(min. 370)	2	2	–	–	–	–
		H140			–	–	–	–	–	140	180	–	–
		R650	1	15	650	–	(min. 500)	8	8	–	–	–	–
		H200			–	–	–	–	–	200	280	–	–
		R750	1	15	760	–	(min. 650)	5	5	–	–	–	–
		H210			–	–	–	–	–	210	290	–	–

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Material			from	up to and including	min.	max.		$A_{50\text{ mm}}$ for thicknesses up to 2.5mm inc. % min.	A for thicknesses greater than 2.5mm % min.	min.	max.	min.	max.
Symbolic	Numerical												
CuNi2Si	CW111C	R260	1	10	260	–	(min. 60)	28	–	–	–	–	–
		H070			–	–	–	–	–	70	100	–	–
		R490	1	10	490	–	(min. 340)	11	–	–	–	–	–
		H140			–	–	–	–	–	140	190	–	–
		R450	0,6	3	450	–	(min. 360)	2	–	–	–	–	–
		H130			–	–	–	–	–	130	180	–	–
		R640	0,6	3	640	–	(min.590)	8	–	–	–	–	–
		H170			–	–	–	–	–	170	220	–	–

Material				Thickness mm	Tensile Strength R_m N/mm ²	Yield Limit at 0,2% $R_{p0.2}$ N/mm ²	Elongation at break			Hardness			
Abbreviation		Number	A5 % min.				A10 % min.	AL50 % min.	HV		HB		
Alloy	Condition								min.	max.	min.	max.	
		without annealing templar	annealed										
CuCrZr		F37	.60	desde 3	mín. 370	mín. 270	12	-	-	-	-	-	-
		H125		hasta 15	-	-	-	125	155	120	150		
		F33	.53	desde 0,3	mín. 330	mín. 310	10	-	-	-	-	-	-
		H95		hasta 10	-	-	-	95	120	90	115		
		F44	.73	desde 0,3	mín. 440	mín. 390	10	-	-	-	-	-	-
		H140		hasta 10	-	-	-	140	180	135	170		
		F49	.79	desde 0,3	mín. 490	mín. 450	8	-	-	-	-	-	-
		H155		hasta 6	-	-	-	155	200	150	190		