



BRONMETAL

Copper AlloyCuA

Product format:

Tape

Technical characteristics:

A strip or band rolled copper alloy



MECHANICAL CHARACTERISTICS

Designations		Nominal thickness		Tensile strength		Yield strength at 0.2%		Elongation		Hardness		Grain size	
Material		mm		R _m		R _{p0.2}		A _{50 mm}	A	HV		mm	
								For thickness up to 2.5mm inc.	For thickness greater than 2.5mm				
Symbol	Numerical	From	Until included	N/mm ²		N/mm ²		%	%	mín.	máx.	mín.	máx.
CuBe2	CW101C	R410	1	15	410	-	(máx. 250)	20	20	-	-	-	-
		H090			-	-	-	-	90	150	-	-	
		R1130	1	15	1130	-	(mín. 890)	3	3	-	-	-	-
		H340			-	-	-	-	340	410	-	-	
		R580	1	15	580	-	(mín. 510)	8	8	-	-	-	-
		H180			-	-	-	-	180	250	-	-	
		R1200	1	15	1200	-	(mín.980)	2	2	-	-	-	-
		H360			-	-	-	-	360	420	-	-	
CuCo1Ni1Be CuCo2Be CuNi2Be	CW103C CW104C CW110C	R240	1	15	240	-	(máx. 220)	20	20	-	-	-	-
		H060			-	-	-	-	60	130	-	-	
		R480	1	15	480	-	(mín. 370)	2	2	-	-	-	-
		H140			-	-	-	-	140	180	-	-	
		R650	1	15	650	-	(mín. 500)	8	8	-	-	-	-
		H200			-	-	-	-	200	280	-	-	
		R750	1	15	760	-	(mín. 650)	5	5	-	-	-	-
		H210			-	-	-	-	210	290	-	-	

Designations		Nominal thickness		Tensile strength		Yield strength at 0.2%		Elongation		Hardness		Tamaño de grano		
Material		Metallurgical state		mm		R _m		R _{p0.2}		HV		mm		
Symbol	Numerical	From	Until included	N/mm ²		N/mm ²		A _{50 mm}	A	mín.	máx	mín.	máx.	
				mín.	máx	For thickness up to 2.5mm inc.	For thickness greater than 2.5mm	%	%					
CuNi2Si	CW111C	R260	1	10	260	-	(mín. 60)	28	-	-	-	-	-	-
		H070			-	-	-	-	-	70	100	-	-	
		R490	1	10	490	-	(mín. 340)	11	-	-	-	-	-	-
		H140			-	-	-	-	140	190	-	-		
		R450	0,6	3	450	-	(mín. 360)	2	-	-	-	-	-	-
		H130			-	-	-	-	130	180	-	-		
		R640	0,6	3	640	-	(mín.590)	8	-	-	-	-	-	-
		H170			-	-	-	-	170	220	-	-		



Material				Tensile strength	Proof stress of 0.2%	Enlogation at break			Hardness					
Abbreviation		Number	Thickness			R _m	R _{p0.2}	A ₅	A ₁₀	A _{L50}	HV		HB	
Alloy	Condition		mm	N/mm ²	N/mm ²	%	%	%						
	Untempered	Temperate					mín.	mín.	mín.	mín.	máx.	mín.	máx.	
CuCrZr			2.1293											
		F37		.60	from 3	mín. 370	mín. 270	12	-	-	-	-	-	
		H125			to 15	-	-	-	-	-	125	155	120	150
		F33		.53	from 0,3	mín. 330	mín. 310	10	-	-	-	-	-	-
		H95			to 10	-	-	-	-	-	95	120	90	115
		F44		.73	from 0,3	mín. 440	mín. 390	10	-	-	-	-	-	-
		H140			to 10	-	-	-	-	-	140	180	135	170
		F49		.79	from 0,3	mín. 490	mín. 450	8	-	-	-	-	-	-
	H155			to 6	-	-	-	-	-	155	200	150	190	

