



**BRONMETAL**

Copper Alloy CuA

Product format:

Plate

Technical characteristics:

Flats rectangular copper alloy



Designations		Nominal dimension of the cross section			Tensile strength	Yield strength at 0.2%	Elongation	Hardness		
Material	Metallurgical state	profile <sup>a</sup>	Rectangular plate thickness		R <sub>m</sub>	R <sub>p0.2</sub>	A	HB	HV	
			mm		N/mm <sup>2</sup>	N/mm <sup>2</sup>	%			
Symbol	Numerical		From	Until included	min.	approx.	approx.	mín.	mín.	
CuNi2Si	CW111C	M	All	All	Manufacturing gross					
		R280 <sup>e</sup>	-	3	60	280	(100)	(30)	-	-
		H070 <sup>e</sup>	-	3	60	-	-	-	70	75
		R380 <sup>b</sup>	-	3	60	380	(260)	(6)	-	-
		H120 <sup>b</sup>	-	3	60	-	-	-	120	125
		R460 <sup>c</sup>	-	3	30	460	(300)	(12)	-	-
		H140 <sup>c</sup>	-	3	30	-	-	-	140	145
		R600 <sup>d</sup>	-	3	30	600	(480)	(8)	-	-
		H180 <sup>d</sup>	-	3	30	-	-	-	180	190
		CuZr	CW120C	M	All	All	Manufacturing gross			
R200 <sup>e</sup>	-			3	60	200	(80)	30)	-	-
H050 <sup>e</sup>	-			3	60	-	-	-	50	50
R300 <sup>d</sup>	-			3	30	300	(250)	(20)	-	-
H110 <sup>d</sup>	-			3	30	-	-	-	110	115
R350 <sup>d</sup>	-			3	10	350	(300)	(18)	-	-
H130 <sup>d</sup>	-			3	10	-	-	-	130	135

<sup>a</sup> For these profiles, the mechanical properties depend on the shape and dimensions of the profile and subject to agreement between the customer and supplier.

<sup>b</sup> Solution heat-treatment cold rolling

<sup>c</sup> Solution heat-treatment and cold rolling hardening.

<sup>d</sup> Solution heat-treatment cold rolling and precipitation hardening in the factory

<sup>e</sup> Solution heat treated

NOTE 1 - Values in parentheses are not requirements of this standard, are given as information only

NOTE 2 - 1N/mm<sup>2</sup> is equivalent to 1 MPa

Designations		Nominal dimension of the cross section			Tensile strength	Yield strength at 0.2%	Elongation	Hardness			
Material		Metallurgical state	profile <sup>a</sup>	Rectangular plate thickness		R <sub>m</sub>	R <sub>p0.2</sub>	A	HB	HV	
Symbol	Numerical			mm		N/mm <sup>2</sup>	N/mm <sup>2</sup>	%			
				From	Until included	mín.	approx.	approx.	mín.	mín.	
CuBe2	CW101C	M	All	All		Manufacturing gross					
		R410	-	3	60	410	(190)	(40)	-	-	
		H085	-	3	60	-	-	-	85	90	
		R580 <sup>b</sup>	-	3	60	580	(520)	(14)	-	-	
		H160 <sup>b</sup>	-	3	60	-	-	-	160	170	
		R1130 <sup>c</sup>	-	3	30	1130	(950)	(6)	-	-	
		H330 <sup>c</sup>	-	3	30	-	-	-	330	350	
		R1200 <sup>d</sup>	-	3	30	1200	(1050)	(6)	-	-	
		H340 <sup>d</sup>	-	3	30	-	-	-	340	360	
CuCo1Ni1Be CuCo2Be CuNi2Be	CW103C CW104C CW110C	M	All	All		Manufacturing gross					
		R240	-	3	60	240	(130)	(25)	-	-	
		H055	-	3	60	-	-	-	55	60	
		R440 <sup>b</sup>	-	3	60	440	(340)	(12)	-	-	
		H100 <sup>b</sup>	-	3	60	-	-	-	100	105	
		R680 <sup>c</sup>	-	3	30	680	(600)	(15)	-	-	
		H220 <sup>c</sup>	-	3	30	-	-	-	220	230	
		R750 <sup>d</sup>	-	3	30	750	(700)	(15)	-	-	
		H240 <sup>d</sup>	-	3	30	-	-	-	240	250	

<sup>b</sup> Solution heat treatment cold rolling.

<sup>c</sup> Solution heat treatment cold rolling and hardening.

<sup>d</sup> Solution heat treatment and cold rolling mill by precipitation hardening.

<sup>e</sup> Solution heat treated.

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