BRONMETAL

Copper Cu

Product format:	General purpose tape
Techenical characteristics :	Tape or copper rolled strip in coils for general

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MECHANICAL CHARACTERISTICS

Designations			Nominal thickness		Tensile strength		Proof stress of 0.2%		Enlogation		Hardness		Grain size	
Material		Metallurgical state	mm		R_m		$R_{p0.2}$		$A_{50\ mm}$ For thicknesses up to 2.5mm including	A For thicknesses greater than 2.5mm	HV			
					N/mm^2		N/mm^2		%	%				
symbolic	Numerical		from	Until included	mín.	máx			mín.	mín.	mín.	máx	mín.	máx.
Cu-ETP Cu-FRTP Cu-OF Cu-DLP Cu-DHP	CW004A CW006A CW008A CW023A CW024A	R200	mayor de 5		200	250	(máx. 100)		-	42	-	-	-	-
		H040			-	-	-		-	-	40	65	-	-
		R220	0,2	5	220	260	(máx.140)		33	42	-	-	-	-
		H040			-	-	-		-	-	40	65	-	-
		R240	0,2	15	240	300	(mín. 180)		8	16	-	-	-	-
		H065			-	-	-		-	-	65	95	-	-
		R290	0,2	15	290	360	(mín. 250)		4	6	-	-	-	-
		H090			-	-	-		-	-	90	110	-	-
		R360	0,2	2	360	-	(mín. 320)		2	-	-	-	-	-
		H110			-	-	-		-	-	110	-	-	-

THICKNESS TOLERANCES IN HOT ROLLED PRODUCTS

Nominal thickness		Tolerance on nominal thickness to width						
Greater than	Up to and including	to 700 inclusive		Greater than 700 to 1000 inclusive		Greater than 1000 to 1500 inclusive		Greater than 1500
		1)	2)	1)	2)	1)	2)	
-	2,5	In accordance		In accordance		In accordance		In accordance
2,5	5,0	± 0,25	± 0,30	± 0,30	± 0,35	± 0,35	± 0,45	
5,0	7,5	± 0,35	± 0,45	± 0,40	± 0,50	± 0,45	± 0,55	
7,5	10	± 0,45	± 0,60	± 0,50	± 0,65	± 0,55	± 0,75	
10	15	± 0,75	± 0,95	± 0,80	± 1,00	± 0,90	± 1,10	
15	25	± 0,95	± 1,20	± 1,05	± 1,30	± 1,30	± 1,60	
25	50	± 1,30	± 1,60	± 1,40	± 1,75	± 1,50	± 1,90	
50	-	± 1,50	± 1,90	± 1,65	± 2,05	± 1,80	± 2,20	

1) For all materials, except CuAl8Fe3 (CW303G), CuNi10Fe1Mn (CW352H), CuNi30Mn1Fe (CW354H) y CuZn20Al2As (CW702R)

2) For all alloys CuAl8Fe3 (CW303G), CuNi10Fe1Mn (CW352H), CuNi30Mn1Fe (CW354H) y CuZn20Al2As (CW702R)

THICKNESS TOLERANCES IN COLD ROLLED PRODUCTS

Nominal thickness		Thickness tolerances for nominal widths[a]			
Greater than	**Up to and including**	**to 350 inclusive**	**Greater than 300 to 700 inclusive**	**Greater than 700 to 1000 inclusive**	**Greater than 1000 to 1250 inclusive**
0.1[b]	0,2	± 0,018	-	-	-
0,2	0,3	± 0,022	± 0,03	± 0,04	-
0,3	0,4	± 0,025	± 0,04	± 0,05	± 0,07
0,4	0,5	± 0,03	± 0,05	± 0,06	± 0,08
0,5	0,8	± 0,04	± 0,06	± 0,07	± 0,09
0,8	1,2	± 0,05	± 0,07	± 0,09	± 0,10
1,2	1,8	± 0,06	± 0,08	± 0,10	± 0,11
1,8	2,5	± 0,07	± 0,09	± 0,11	± 0,13
2,5	3,2	± 0,08	± 0,10	± 0,13	± 0,17
3,2	4,0	± 0,10	± 0,12	± 0,15	± 0,20
4,0	5,0	± 0,12	± 0,14	± 0,17	± 0,23
5,0	6,0	± 0,14	± 0,16	± 0,20	± 0,26
6,0	7,0	± 0,16	± 0,19	± 0,23	± 0,29
7,0	8,0	± 0,18	± 0,22	± 0,26	± 0,32
8,0	9,0	± 0,20	± 0,25	± 0,29	± 0,35
9,0	10,0	± 0,22	± 0,28	± 0,32	± 0,38

[a] **For alloys CuAl8Fe3 (CW303G), CuNi10Fe1Mn (CW352H), CuNi30Mn1Fe (CW354H) y CuZn20Al2As (CW702R), thickness tolerances must be multiplied by 1.25 and the rounded to 0.01mm**
[b] **included 0.1.**

NOTE - For thickness above 10mm, tolerances are set forth in 1653