



BRONMETAL

Copper Cu

Product format:

Sheet electrical purposes

Technical Characteristics:

Rolled sheets of copper for electrical applications

MECHANICAL CHARACTERISTICS

Designation		Nominal thickness		Hardness		Tensile strength		Proof stress of 0.2%		Enlogation			
Material	Metallurgical state	t^a		HV		R_m		$R_{p0.2}$		$A_{50\text{ mm}}$	A		
		mm				N/mm ²		N/mm ²		For thicknesses of 0.1mm to 2.5mm including	For thicknesses greater than 2.5mm		
Simbólica	Numérica	from	Until included	mín.	máx	mín.	máx	mín.	máx	%	%		
	M	10	25	In as rolled									
Cu-ETP^b Cu-FRCH^b Cu-OF CuAg0.10^b CuAg0,10P CuAg0,10(OF) Cu-PHC Cu-HCP	CW004A ^b CW005A ^b CW008A CW013A ^b CW016A CW019A CW020A CW021A	H040	0,10	5	40	65	-	-	-	-	-	-	
		R220 ^b			-	-	220	260	-	(140)	33	42	
		H040	0,20	10	40	65	-	-	-	-	-	-	
		R200			-	-	200	250	-	(100)	-	42	
		H065	0,10	10	65	95	-	-	-	-	-	-	
		R240			-	-	240	300	180	-	8	15	
		H090	0,10	10	90	110	-	-	-	-	-	-	
		R290			-	-	290	360	250	-	4	6	
		H110	0,10	2	110	-	-	-	-	-	-	-	
		R360			-	-	360	-	320	-	2	-	

NOTE 1 - 1 N/mm² is equivalent to 1 MPa

NOTE 2 - The numbers in parentheses are not requirements of this standard are given for information only..

^a For thicknesses below 0.10mm the mechanical proprieties must be agreed between customer and supplier.

^b For Cu-ETP (CW004A), Cu-FRCH (CW005A) and CuAg0.10 (CW013A) with thicknesses between 0.10 mm to 0.20 mm included, apply the following values: R_m mín. 200N/mm² y $A_{50\text{ mm}}$ mín. 28%.