



CASA DEL BRONZO

DESIGNAZIONE NUMERICA
CW452K

Informazioni di base

DESIGNAZIONE SIMBOLICA:

CuSn6

PAESE/NORMATIVA

Germany/UNI

GRUPPO DEI MATERIALI

Metalli

SOTTOGRUPPO:

DIN EN 1652 Copper and copper alloys – Plate, sheet, strip and circles for general purposes

COMMENTO:

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Composizione chimica (%)

Criteria	Min	Max	Appross
Fe		0.1000	
Ni		0.2000	
Other total		0.2000	
P	0.0100	0.4000	
Pb		0.0200	
Sn	5.5000	7.0000	
Zn		0.2000	

Criteria **Commento**

Cu	Remainder
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Proprietà meccaniche

	Min	Max	Appross
Circles, plates, sheets, strips; H080; 0,1 < t <=5 mm			
Hardness (HV)	80	110	-
Circles, plates, sheets, strips; H125; 0,1 < t <=5 mm			
Hardness (HV)	125	165	-
Circles, plates, sheets, strips; H160; 0,1 < t <=5 mm			
Hardness (HV)	160	190	-
Circles, plates, sheets, strips; H180; 0,1 < t <=2 mm			
Hardness (HV)	180	210	-
Circles, plates, sheets, strips; H200; 0,1 < t <=2 mm			
Hardness (HV)	200	230	-
Circles, plates, sheets, strips; H220; 0,1 < t <=2 mm			
Hardness (HV)	220	-0	-
Circles, plates, sheets, strips; R350; 0,1 < t <=5 mm			
Yield stress, R _{p0,2} (MP _a)	-	300	-
Tensile stress R _m (MP _a)	350	420	-
Elongation, A (%)	45	-	-
	For the thicknesses up to 2.5 mm (L ₀ =50mm); For the thicknesses above 2.5 mm, A=55%min.		
Circles, plates, sheets, strips; R420; 0,1 < t <=5 mm			
Yield stress, R _{p0,2} (MP _a)	260	-	-
Tensile stress R _m (MP _a)	420	520	-
Elongation, A (%)	17	-	-
	For the thicknesses up to 2.5 mm (L ₀ =50mm); For the thicknesses above 2.5 mm, A=20%min.		
Circles, plates, sheets, strips; R500; 0,1 < t <=5 mm			
Yield stress, R _{p0,2} (MP _a)	450	-	-
Tensile stress R _m (MP _a)	500	590	-
Elongation, A (%)	8	-	-
	For the thicknesses up to 2.5 mm (L ₀ =50mm); For the thicknesses above 2.5 mm, A=10%min.		
Circles, plates, sheets, strips; R560; 0,1 < t <=2 mm			
Yield stress, R _{p0,2} (MP _a)	500	-	-
Tensile stress R _m (MP _a)	560	650	-
Elongation, A (%)	5	-	-
	For the thicknesses up to 2.5 mm (L ₀ =50mm);		
Circles, plates, sheets, strips; R640; 0,1 < t <=2 mm			
Yield stress, R _{p0,2} (MP _a)	600	-	-
Tensile stress R _m (MP _a)	640	730	-
Elongation, A (%)	3	-	-
	For the thicknesses up to 2.5 mm (L ₀ =50mm);		
Circles, plates, sheets, strips; R720; 0,1 < t <=2 mm			
Yield stress, R _{p0,2} (MP _a)	690	-	-
Tensile stress R _m (MP _a)	720	-	-



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Proprieta' Fisiche

Condition:

Annealed; Behavior of material at cold regions temperatures, Part 1: Program rationale and test plan

Modulus of elasticity (GPa)

Temperature (° C) Value

-265	118.37
-200	117.68
-150	116.84
-100	116.01
-50	115.15
0	114.27
50	113.39
100	112.47
150	111.60
226	110.33