



CASA DEL BRONZO

DESIGNAZIONE NUMERICA
CW453K

Informazioni di base

DESIGNAZIONE SIMBOLICA:

CuSn8

PAESE/NORMATIVA

Germany/DIN

GRUPPO DEI MATERIALI

Metalli

SOTTOGRUPPO:

DIN EN 12163 Copper and copper alloys – Rod for general purposes

COMMENTO:

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Composizione chimica (%)

Criteria	Min	Max	Appross
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Criteria	Min	Max	Appross
Fe		0.1000	
Ni		0.2000	
Other total		0.2000	
P	0.0100	0.4000	
Pb		0.0200	
Sn	7.5000	8.5000	
Zn		0.2000	

Criteria	Commento
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Criteria	Commento
Cu	Remainder



CASA DEL BRONZO

Proprietà meccaniche

	Min	Max	Appross
Rods; H085; 2 < d <= 60 mm or 2 < w <= 60 mm; d - (diameter); w - (width across-flats)			
Hardness (HB)	85	125	-
Rods; H135; 2 < d <= 50 mm or 2 < w <= 50 mm; d - (diameter); w - (width across-flats)			
Hardness (HB)	135	165	-
Rods; H160; 2 < d <= 12 mm or 2 < w <= 12 mm; d - (diameter); w - (width across-flats)			
Hardness (HB)	160	190	-
Rods; H180; 2 < d <= 8 mm; d - diameter			
Hardness (HB)	180		-
Rods; H210; 2 < d <= 4 mm; d - diameter			
Hardness (HB)	210		-
Rods; R390; 2 < d <= 60 mm or 2 < w <= 60 mm; d - (diameter); w - (width across-flats)			
Yield stress, R _{p0.2} (MP _a)	-	280	-
Tensile stress R _m (MP _a)	390		-
Elongation, A (%)	45	-	-
	Lo = 5.65√So (d or w > 8mm); Amin. 35% in Lo = 100 mm (d or w < 4mm); Amin. 40% in Lo = 11.3√So mm (4 < d or w <= 8mm)		
Rods; R450; 2 < d <= 50 mm or 2 < w <= 50 mm; d - (diameter); w - (width across-flats)			
Yield stress, R _{p0.2} (MP _a)	280	-	-
Tensile stress R _m (MP _a)	450		-
Elongation, A (%)	26	-	-
	Lo = 5.65√So (d or w > 8mm); Amin. 18% in Lo = 100 mm (d or w < 4mm); Amin. 22% in Lo = 11.3√So mm (4 < d or w <= 8mm).		
Rods; R550; 2 < d <= 12 mm or 2 < w <= 12 mm; d - (diameter); w - (width across-flats)			
Yield stress, R _{p0.2} (MP _a)	400	-	-
Tensile stress R _m (MP _a)	550	590	-
Elongation, A (%)	15	-	-
	Lo = 5.65√So (d or w > 8mm); Amin. 10% in Lo = 100 mm (d or w < 4mm); Amin. 12% in Lo = 11.3√So mm (4 < d or w <= 8mm)		
Rods; R620; 2 < d <= 8 mm or 2 < w <= 8 mm; d - (diameter); w - (width across-flats)			
Yield stress, R _{p0.2} (MP _a)	500	-	-
Tensile stress R _m (MP _a)	620	-	-
Elongation, A (%)	5	-	-
	Lo = 100 mm (d or w < 4mm); Amin. 8% in Lo = 11.3√So mm (4 < d or w <= 8mm)		
Rods; R750; 2 < d <= 4 mm; d - diameter			
Yield stress, R _{p0.2} (MP _a)	680	-	-
Tensile stress R _m (MP _a)	750	730	-

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