

	WISCO ALLOY SPECIFICATION www.wisco.es	W-10
	CuSn10-C (CC480K) EN 1982	

1.- Requirements

Chemical Composition (%)												
	Cu ^a	Ni	P	Pb	Sn	Al	Fe	Mn	S	Sb	Si	Zn
Min.	88,0	-	-	-	9,0	-	-	-	-	-	-	-
Max.	90,0	2,0	0,2	1,0	11,0	0,01	0,2	0,10	0,05	0,2	0,02	0,5

^a Incluyendo Ni

Mechanical properties (Minimum values)				
Casting process and designation	Tensile strength R _m (MPa)	0,2% proof strength R _{p0,2} (MPa)	Elongation 5D A (%)	HBW (10-1000)
Continuous(GC) ¹	280	170	10	80
Centrifugal (GZ)	280	160	10	80

¹ The mechanical property requirements given apply to sizes up to and including 300 mm external diameter. For larger continuous castings, the mechanical property requirements should be agreed between the supplier and the purchaser.

2.- Closest International standards

Standard		Alloy	Status
Europe	BS 1400 DIN 1705	PB1 CuSn10	Withdrawn
USA	ASTM B505	C90700 (SAE 65) C92700 (SAE 63)	Active
Australia	AS 1565	C90250	Active
Japan	JIS H5121 JIS H5120	CAC502C CAC502	Active
ISO	1338	CuSn10	Withdrawn

3.- Optional Heat Treatments at clients' request

- Stress Relieve
- Phase transformation

4.- Technical Characteristics

- This alloy is recommended for high static loads, for high and low speeds with good lubrication, and for application where high resistance to fatigue is required.
- It is very resistant to abrasive environment, resistant to erosion, and to cavitation.
- Material resistant to atmospheric corrosion, and to spring and sea water.