

	<b>WISCO ALLOY SPECIFICATION</b> www.wisco.es	<b>W-7</b>
	<b>CuSn7Zn4Pb7-C (CC493K) EN 1982</b>	

## 1.- Requirements

Chemical Composition (%)											
	Cu <sup>a</sup>	Ni	P	Pb	Sn	Zn	Al	Fe	S	Sb	Si
<b>Min.</b>	81,0	-	-	5,0	6,0 <sup>b</sup>	2,0	-	-	-	-	-
<b>Max.</b>	85,0 <sup>b</sup>	2,0	0,10	8,0	8,0	5,0	0,01	0,2	0,10	0,3	0,01

<sup>a</sup> Including Ni

<sup>b</sup> For continuous castings and centrifugal castings, the minimum tin content shall be 5,2 % and the maximum copper content for ingots shall be 86,0 %

Mechanical properties (Minimum values)				
Casting process and designation	Tensile strength R <sub>m</sub> (MPa)	0,2% proof strength R <sub>p0,2</sub> (MPa)	Elongation 5D A (%)	HBW (10-1000)
Continuous(GC) <sup>1</sup>	260	120	12	70
Centrifugal (GZ)	260	120	12	70

<sup>1</sup> 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	
Europa BS 1400 DIN 1705 NFA-53707	LG4 CuSn7ZnPb (Rg7) UE7	Withdrawn	
USA ASTM B505 ASTM B271	C93200 (SAE 660)	Active	
Australia	AS 1565	C93200	Active
Japón JIS H5121 JIS H5120	CAC407C CAC407	Active	
ISO	1338	CuSn7Pb6Zn4	Withdrawn

## 3.- Optional Heat Treatments at clients' request

- Stress relieve

## 4.- Technical Characteristics

- Good machining properties.
- Good self-lubricating properties.
- Corrosion Resistant.
- Working conditions should not exceed 200 °C / 392 °F.