

	WISCO ALLOY SPECIFICATION www.wisco.es	W-5
	CuSn5Zn5Pb5-C (CC491K) EN 1982	

1.- Requirements

Chemical Composition (%)											
	Cu ^a	Ni	P	Pb	Sn	Zn	Al	Fe	S	Sb	Si
Min.	83,0	-	-	4,0	4,0	4,0	-	-	-	-	-
Max.	87,0	2,0	0,10	6,0	6,0	6,0	0,01	0,3	0,10	0,25	0,01

^a Including Ni

Mechanical Properties (Min. Values)				
Casting Process	Tensile Strength R _m (MPa)	Yield Strength 0,2% R _{p0,2} (MPa)	Elongation 5D A (%)	HBW (10-1000)
Continuous (GC) ¹	250	110	13	65
Centrifugal (GZ)	250	110	13	65

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.- Equivalent Specifications

Standard	Alloy	Status
Europa BS 1400 DIN 1705 NFA 53707	LG2 CuSn5Zn5Pb (Rg5) UE5	Withdrawn
USA ASTM B505 ASTM B271	C83600 (SAE 40)	Active
Australia AS 1565	C83600A	Active
Japón JIS H5121 JIS H5120	CAC406C (BC6) CAC406	Active
ISO 1338	CuSn5Pb5Zn5	Withdrawn

3.- Optional Heat Treatments at customers' request

- Stress Relieve

4.- Technical Characteristics

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