

	WISCO ALLOY SPECIFICATION www.wisco.es	W-AlFe
	CuAl10Fe2-C (CC331G) EN 1982	

1.- Requirements

Chemical Composition (%)										
	Al	Cu	Fe	Mn	Ni	Mg	Pb	Si	Sn	Zn
Min.	8,5	83,0	1,5	-	-	-	-	-	-	-
Max.	10,5	89,5	3,5	1,0	1,5	0,05	0,10 ^a	0,2	0,20	0,50

^a Para piezas moldeadas previstas para ser soldadas, el contenido máximo en plomo debe ser del 0,03%.

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	550	200	15	130
Centrifugal (GZ)	550	200	18	130

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Europe	BS 1400 DIN 1714 NFA-53709	AB1 CuAl10Fe CuAl10Fe3	Withdrawn
USA	ASTM B505 ASTM B271	C95200	Active
Australia	AS 1565	C95210	Active
Japan	JIS H5121 JIS H5120	CAC701C CAC701C	Active
ISO	1338	CuAl10Fe3	Withdrawn

3.- Optional Heat Treatments at clients' request

- Stress Relieve

4.- Technical Characteristics

- Difficult machining properties
- Good wear resistant material
- Quite good performance under sea water
- Good resistance to oxidation at high temperature
- Good working conditions up to 300 °C
- Resistant to erosion and cavitation