

**DATA SHEET:**

**Aluminium bronze: EN 1982: CuAl10Fe5Ni5-C (CC333G) (NiAp210)**

**Correspondence of Standards: UNS C 95200, DIN 1716 CuAl10Fe, BS 1400 AB1, ASTM B505**

**Typical mechanical properties: (GZ=Centrifugal casting, GC=Continuous casting)**

Min values	0,2 %-proof strength N/mm <sup>2</sup>	Tensile strength N/mm <sup>2</sup>	Elongation A %	Hardness HB
GZ	280	650	13	150
GC	280	650	13	150

**Physical properties:**

Density kg/dm	Coefficient thermal expansion 10 <sup>-6</sup> x 1/K	Thermal conductivity W/Km	Resistivity nΩm
7,6	17	40	200

**Corrosion resistance: (Relative scale for copper alloys: 1 – 5, where 5 means best resistance)**

Air, fresh water	Sea water	Soap solution, alcalic	Weak acids	Strong nonoxidizing acids
5	5	4	5	4

**Nominal composition %:**

	Cu	Sn	Pb	Zn	Ni	P	Fe	Si	Mn	Al	Bi	Cr
min.	76,0	-	-	-	4,0	-	4,0	-	-	8,5	-	-
max.	83,0	0,1	0,03	0,5	6,0	-	5,5	0,1	3,0	10,5	0,01	0,05

**Recommended use:**

Very strong acid proof mixtures that have great fatigue strength also in corrosive conditions. The mixture is very resistant to cavitations and erosion. Usage temperature range -180C - + 350 C, can be used up to +400 C with lower strength demands.

**USE**

For use in machine parts in chemical-, nutrient-, oil and mountain industry and in ship building, propellers, spiral and toothed rims, fixtures of overheated steam, sliding panels and screws. Demands quenched steel parts as counterparts.

Our customer service advices on material selection for different uses: [info@keskipakovalu.fi](mailto:info@keskipakovalu.fi) and phone +358 3 357 9000