

**DATA SHEET:**

**Aluminium bronze: EN 1982: CuAl10Fe2-C (CC331G) (Ap110)**

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

**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	200	550	18	130
GC	200	550	15	130

**Physical properties:**

Density kg/dm	Coefficient thermal expansion 10 <sup>-6</sup> x 1/K	Thermal conductivity W/Km	Resistivity nΩm
7,5	17	65	120

**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	S	Mg
min.	83,0	-	-	-	-	-	1,5	-	-	8,5	-	-
max.	89,5	0,2	0,10	0,5	1,5	-	3,5	0,2	1,0	10,5	-	0,05

**Recommended use:**

Excellent static and dynamic strength properties, which are stable up to +400 C. Corrosion resistance is excellent, but not in alkaline solutions.

**USE**

Durable acid proof equipment and fixtures in chemical and nutrient industry and ship building, mine pumps, propellers, bushings, seats of valves and valve gears of combustion engines.

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