

**DATA SHEET:**

**Lead tin bronze: EN 1982: CuSn10Pb10-C (CC495K) (LTP110)**

**Correspondence of Standards: DIN EN 1982 CuSn10Pb10-C, UNS C 93700, SIS 145640**

**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	110	220	6	70
GC	110	220	8	70

**Physical properties:**

Density kg/dm <sup>3</sup>	Coefficient thermal expansion 10 <sup>-6</sup> x 1/K	Thermal conductivity W/Km	Resistivity nΩm
9,0	19	50	170

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

Air, fresh water	Sea water	Soap solution, alkaline	Weak acids	Strong nonoxidizing acids
5	5	4	5	2

**Nominal composition %:**

	Cu	Sn	Pb	Zn	Ni	P	Fe	Si	Mn	Al	S	Sb
min.	78,0	9,0	8,0	-	-	-	-	-	-	-	-	-
max.	82,0	11,0	11,0	2,0	2,0	0,10	0,25	0,01	0,2	0,01	0,10	0,5

**Recommended use:**

Medium hard lead tin bronze that has good sliding properties and is resistant to wear and tear. Resistance to acids is good. Very good as bearing metal. Endures great surface pressures and moderate edge pressure, good emergency lubrication properties and it can be used successfully in grease lubricated bearings.

**USE**

In sliding bearings under great surface pressures like bushings of peeling drums, calander bearings, vehicle bearings, earth moving machine bearings, bearings of gudgeon pin and crosshead blocks, turbine rotor bearings, paper rolling machine bearings, suction roll bushings, telescope pipe guide bushings, connecting rod bearings, jaw crusher bearings, hot roller bearings, etc.

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