

DATA SHEET:

Tin bronze: EN 1982: CuSn10-C (CC480K) (TP10)

Correspondence of Standards: ASTM B505, UNS C90700, SIS 145458, BS 1400 CT1

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

Min values	0,2 %-proof strength N/mm ²	Tensile strength N/mm ²	Elongation A %	Hardness HB
GZ	160	280	10	80
GC	170	280	10	80

Physical properties:

Density kg/dm	Coefficient thermal expansion 10 ⁻⁶ x 1/K	Thermal conductivity W/Km	Resistivity nΩm
8.8	18	50	160

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	5	5	2

Nominal composition %:

	Cu	Sn	Pb	Zn	Ni	P	Fe	Si	Mn	Al	S	Sb
min.	88,0	9,0	-	-	-	-	-	-	-	-	-	-
max.	90,0	11,0	1,0	0,5	2,0	0,2	0,2	0,02	0,10	0,01	0,05	0,2

Recommended use:

Tough mixture that is resistant to cavitation and seawater and has long elongation.

USE

In fast operating spiral and tooth rims that allow impact stress, in armatures, pump cases, pump impellers, etc.

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