

DATA SHEET:

Gun metal: EN 1982: CuSn7Zn4Pb7-C (CC493K) (RG7)

Correspondence of Standards: DIN 1705 CuSn7PbZn, UNS C93200, SAE 660, ASTM B 505

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	120	260	12	70
GC	120	260	12	70

Physical properties:

Density kg/dm	Coefficient thermal expansion 10 ⁻⁶ x 1/K	Thermal conductivity W/Km	Resistivity nΩm
8.9	19	45	110

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	4	4	3	2

Nominal composition %:

	Cu	Sn	Pb	Zn	Ni	P	Fe	Si	Mn	Al	S	Sb
min.	81,0	6,0	5,0	2,0	-	-	-	-	-	-	-	-
max.	85,0	8,0	8,0	5,0	2,0	0.10	0.2	0.01	-	0.01	0.10	0,3

Recommended use:

CuSn7Zn4Pb7-C is a connecting factor between gun metals and leaded tin bronzes. It endures bigger surface pressure than CuSn5Zn5Pb5-C in addition, the sliding properties are better. Its properties are near the properties of leaded tin bronzes.

USE

In sliding bearings of earth moving machinery and in sliding bearings, which are slightly more loaded than CuSn5Zn5Pb5-C.

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