

CuSn7Zn4Pb7-C (RG7) | Hexagon bars

DATA SHEET



Alloy	CuSn7Zn4Pb7-C, CC493K, 2.1090
Condition	GC, continuous cast, rough
Norm	DIN EN 1982
Tolerance	+0/-0,3 mm
Machinability	very good
Sliding properties	very good
Corrosion resistance	very good
REACH	information obligations relative to SVHC lead
RoHS	not conform

Mechanical Properties

Tensile strength R_m	Yield stress $R_{p0,2}$	Elongation A	Hardness HB
$\geq 260 \text{ N/mm}^2$	$\geq 120 \text{ N/mm}^2$	$\geq 12\%$	≥ 70

Commonest, low-budget gun metal alloy for slide bearings. Still has good dry-running properties and sufficient wear resistance at medium hardness. Also suitable when unhardened shafts and light edge pressure are being used. Short-chipping material, good machinability, good corrosion resistance (even in seawater), soft solderable and to a limited extent hard solderable. The main areas of application are slide bearings and bearing bushings for general mechanical engineering.

Chemical Analysis

Cu	81.0-85.0 %
Pb	5.0-8.0 %
Sn	6.0-8.0 %
Ni	max. 2.0 %
Zn	2.0-5.0 %
Si	max. 0.01 %
P	max. 0.1 %
Fe	max. 0.2 %
Al	max. 0.01 %
S	max. 0.1 %
Sb	max. 0.3 %

Comparable Specifications

CuSn7ZnPb, 2.1090, DIN 1705 (Rg 7)
C93200 UNS