

CuSn7Zn4Pb7-C (RG7) | Tubes

DATA SHEET



Alloy	CuSn7Zn4Pb7-C, CC493K, 2.1090
Condition	GC, continuous cast, rough
Norm	DIN EN 1982
Tolerance	< A.D. 97 mm: A.D. +0,6/-0 mm, I.D. -1/+0 mm A.D. 102-193 mm: A.D. +1/-0 mm, I.D. -1,5/+0 mm > A.D. 202 mm: A.D. +2/-0 mm, I.D. -2/+0 mm
Machinability	very good
Sliding properties	good
Corrosion resistance	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