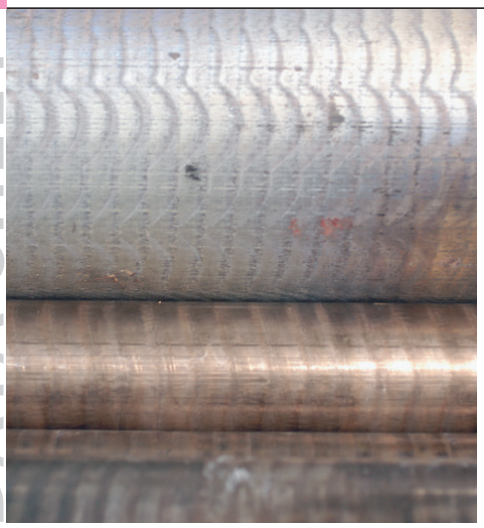
Cu Sn7 Zn3NiPS-C (EC7) | Round bars

DATA SHEET



Alloy	Cu Sn 7 Zn 3NiPS-C, CC471K
Condition	GC, continous cast, rough
Norm	DIN EN 1982
Tolerance	≤ Ø 97 mm: +0,6/-0 mm Ø 102-193 mm: +1/-0 mm ≥ Ø 203 mm: +2/-0 mm
Machinability	very good
Sliding properties	good
Corrosion resistance	good
REACH	no obligations
RoHS	conformal

Mechanical Properties

	Tensile strength R_m	Yield stress $R_{p\,0,2}$	Elongation A	Hardness HB
	≥ 260 N/mm²	≥ 120 N/mm²	≥ 12 %	≥ 70

EC7 - Alternative to RG7 (CC493K)

The material EC7 is an equivalent lead-free alternative to the standard alloy RG7 (CC493K). The material thus has the same application properties as its lead-containing standard alloy.
Still has good dry-running properties and sufficient wear resistance at medium hardness. Also suitable when unhardened shafts and light edge pressureare 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	85.0 - 92.3 %
Pb	max. 0.09 %
Sn	5.4 - 8.0 %
Ni	1.1 - 2.5 %
Zn	1.0 - 3.5 %
Si	max. 0.01 %
P	0.03 - 0.06 %
Fe	max. 0.2 %
Al	max. 0.01 %
S	0.2 - 0.6 %
Sb	max. 0.3 %

Comparable Specifications

Cu Sn 7 Zn Pb, 2.1090, DIN 1705 (Rg 7)
C 93200 UNS

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