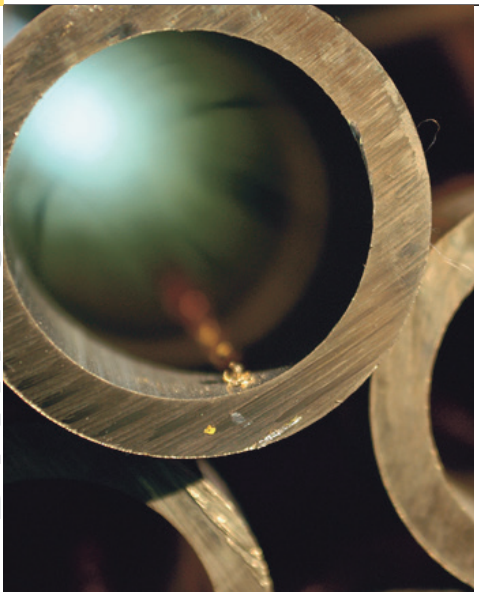
DATA SHEET

Phosphorbronze | Tubes



Alloy	Cu Sn 8, CW453K mostly also available in Cu Sn 8 P, CW459K
Method of Manufacture	drawn
Specification	EN 12449
Tolerance	EN 12449 outside ø +/- 0.15 to +/- 0.25 mm wall thickness mostly +/- 0.44 to +/- 0.70 mm
Temper	R450S, therm. stress relieved
Machinability	moderate
Hot Working	not good
Cold Working	good
Corrosion Resistance	very good versus many media, incl. sea water
Sliding Properties	very good
REACH	no obligations
RoHS	conformal

Mechanical Properties

	Tensile strength R_m	Yield stress $R_{p\,0,2}$	Elongation A	Hardness HB
M	as obtained			
R450	≥ 450 N/mm²	≥ 250 N/mm²	≥ 25 %	
H115				110-155
R520	≥ 520 N/mm²	≥ 440 N/mm²	≥ 10 %	
H155				150-185

Chemical Composition

Cu Rest
Sn 7.5 - 8.5 %
P 0.01 - 0.4 %

Impurities, max.:
Fe 0.1 %, Ni 0.2 %, Pb 0.02 %, Zn 0.2 %
other 0.2 %

Better corrosion resistance than tin bronzes with lower tin content, higher strength and very good sliding properties and wear resistance. Good cold formability, good solderability. Sliding components, slide bearings (especially thin-walled ones) and sliding guides. Highly stressed worm and gear wheels, screws and bolts.

Comparable Specifications

Cu Sn 8, 2.1030, DIN 17 662
C 52 100 UNS
PB 104, BS 2870 - 2875

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