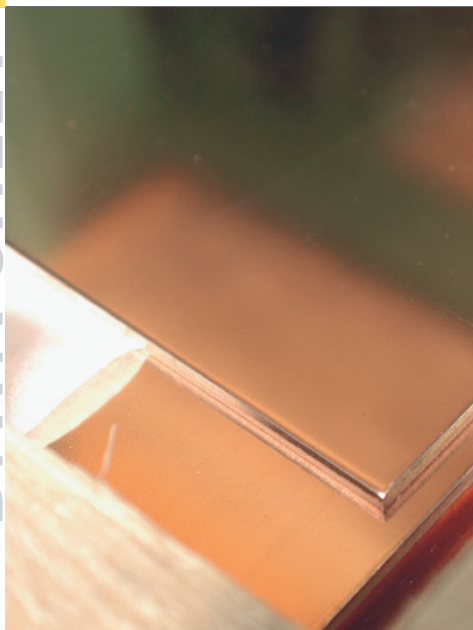


Phosphorbronze | Plates

DATA SHEET



Alloy	CuSn6, CW452K
Method of Manufacture	≤ 10 mm thickness: cold rolled ≥ 12 mm thickness: hot rolled
Specification	EN 1652
Tolerance	EN 1652
Temper	format 300 x 2,000 mm ≤ 10.0 mm thick: H180, spring hard, HV 180-210 12-25 mm thick: mostly H160, hard, HV 160-190 format 600 x 2,000 mm all thicknesses: H160, hard, HV 160-190
Machinability	moderate
Hot Working	not good
Cold Working	good
Corrosion Resistance	very good versus many media, incl. sea water
REACH	no obligations
RoHS	conformal

Mechanical Properties

	Tensile strength R_m	Yield stress $R_{p0.2}$	Elongation A	Hardness HV
M	as obtained			
H160 (hard)				160-190
H180 (spring hard)				180-210

Chemical Composition

Cu	Rest
Sn	5.5 - 7 %
P	0.01-0.4 %
Impurities, max.:	
Fe	0.1 %
Ni	0.2 %
Pb	0.02 %
Zn	0.2 %
other	0.2 %

Good corrosion resistance and strength properties. Hard-wearing, good solderability. Good cold formability. Springs of all kinds, especially for the electrical industry. Applications in the paper, pulp and chemical industries, in shipbuilding and mechanical engineering.

Comparable Specifications

CuSn6, 2.1020, DIN 17 662
C 51 900 UNS
PB 103, BS 2870-2875