

TECHNICAL DATA SHEET

Nonferrous alloy type PB

General notes:

- » Phosphor bronze (CuSn8P)
- » copper-tin alloy
- » non-magnetizable (100%)
- » good to excellent corrosion resistance; all copper alloys resist corrosion by fresh water and steam
- » good cold workability (forming)
- » generally it is utilized when, in addition to corrosion resistance, good tensile properties are required
- » typical applications include tweezers for handling scratch-sensitive mechanical parts, watch components, magnets

Composition

Component	Wt.%	Component	Wt.%
Cu	92	Sn	8

Mechanical properties

annealed
8.8 g/cm ³
185 HV
600-700 MPa
350-400
70%
110 GPa

Thermal properties

Coef. of lin. therm expansion	18.2 E-6/°C	20°C-300°C
Thermal conductivity	62 W/(m K)	

Electrical properties

Resistivity n/a

This document contains information based on average values as obtained from the results of laboratory tests and observations made on the material. Ideal-tek SA declines all responsibility from an improper use of the product described in this document.