



Black Hawk Metals

The preferred supplier of
Brass, Bronze, Cast iron & Copper.

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Letter of Conformance

PHOSPHOR BRONZE – Alloy PB1

*Our material has been manufactured, tested & inspected, and is in compliance with BS1400-PB1
as specified below*

TYPICAL CHEMICAL COMPOSITION %	
Element	Nominal
Copper (Cu)	Balance
Tin (Sn)	10.60
Lead (Pb)	0.25
Zinc (Zn)	0.05
Nickel (Ni)	0.1
Silicon (Si)	0.02
Aluminium (Al)	0.01
Phosphor (P)	0.625

Typical Mechanical Properties

Ultimate Tensile Strength	390 MPa
Elongation	8 %
Typical Hardness	110 BHN
Machinability	20 % (free machining brass = 100%)
Proof Strength	190 MPa

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