



# Black Hawk Metals

*The preferred supplier of*

*Brass, Bronze, Cast Iron & Copper.*

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## Data Sheet

### *PHOSPHOR BRONZE – Alloy PB1*

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

<b>TYPICAL CHEMICAL COMPOSITION %</b>	
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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