

**PB1 (Phosphorus Bronze)****Chemical Composition**

(% max., unless shown as range or min.)

	Cu	Sn	Zn	Pb	P	Ni	Fe
Min. /Max.	Bal	10.2-11.5	0.05	0.25	0.6-1.0	0.1	0.1
Nominal	87.7	11	-	0.2	1	0.1	-

Note: Cu + Sum of Named Elements, 99.5% min.

Applicable Specifications

Product	Specification
Cast	AS 90710 BS 1400 PB1 UNS C90710 SAE 65 BS EN CC481K

Common Fabrication Processes

No information available.

Fabrication Properties

Process	Rating
Machinability Rating	30

Thermal Properties

Treatment	Temp./Time - US	Temp./Time - SI
Stress Relieve	500	260
Maximum Work Temp	482	250

Mechanical Properties (measured at room temperature, 68 F (20 C))

Temper	Tensile Strength	Yield Strength (0.2% offset)	El	Brinell Hard.
	ksi MPa	ksi MPa	%	HB
Cast				
Continuous	52 360	25 170	8	80
Centrifugal	49 340	25 170	7	80

Physical Properties

	US Customary	Metric
Density	0.307 lb/in ³ at 68 F	8.8 gm/cm ³ @ 20 C
Specific Gravity	8.800	8.8

Tempers Most Commonly Used

Cast

Typical Uses**Industrial**

Gears, Bearings and Heavy Load Bushes