

## C51800 Phosphorus Bronze

C51800 is the most widely used of the wrought phosphor bronzes, particularly in spring applications where the excellent resistance and fatigue endurance of various work-hardened tempers are major advantages of the alloy.

It also has a low coefficient of friction running against steel, combined with high strength. This makes it a popular choice for wear resistant guide strips and similar bearing applications involving boundary lubrication conditions.



### TYPICAL USES for C51800 Phosphor Bronze:

Typical applications for C51800 phosphor bronze include bearings, bushings, gears, pinions, shafts, springs, thrust washers and valve parts.

**C51800 Phosphorus Bronze**

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### Equivalent Specifications:

Specifications	BS	EN	JIS	DIN	IS	ISO	Russian
Designation	-	CW457K	H3270(92) C5102 B	CuSn4Te1P	-	-	-

### Chemical Composition:

	Cu	Pb	Sn	P	Al
Min	-	-	4.0	0.10	-
Max	Rem.	0.02	6.0	0.35	0.01

### Specifications:

Product	Specification
Electrode	MILITARY MIL-E-23765/3
Rod	AWS A5.13, AWS A5.15, AWS A5.7, FEDERAL QQ-R-571

**Sizes Available:**

<b>TUBES</b>	6.35 mm to 110mm
<b>ROUND WIRES</b>	1 mm to 11mm
<b>ROUND RODS</b>	1.2 to 250 mm
<b>HEX RODS</b>	Min. 5 mm to Max. 60 mm
<b>SQUARE RODS</b>	Min. 4 mm to Max. 60 mm
<b>FLATS</b>	Min. 4 mm thickness and max width of 120mm
<b>PROFILES</b>	As per customer drawings
<b>HOLLOW RODS</b>	Min Bore Size 20mm and Max OD 130mm