

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.

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Equivalent Specifications:

Specifications	ASTM	BS	EN	JIS	DIN	ISO	IS
Designations	C51800	-	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:

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