



Chicago Bronze

Cast Right. Machine Tight. Since 1980.

Alloy C91700 Nickel Tin Bronze (Nickel Gear Bronze)

Composition (wt.%)		Mechanical Properties	
Element	Wt.%	Property	Value
Cu	86.00%	Density	8740 kg/m ³
Sn	12.00%	Hardness (BHN)	85
Ni	1.50%	UTS	303 MPa
Zn	0.25%	Yield (0.2%)	152 MPa
Pb	0.25%	Elongation	16 %
		Machinability	Poor (rating 20)

Applications	Standards
Plain & flanged bearings (SAE 660 class), thrust washers, gears, pump components.	ASTM B271 ASTM B505 ASTM B584

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Values are typical. Verify against relevant ASTM/AMS standards. © Chicago Bronze.