



## Tin Bronze (% Max. unless shown as range or min.)

Family	Alloy	Cu%	Sn%	Pb%	Zn%	Fe%	Sb%	Ni%	S%	P%	Al%	Mn%	Si%	Bi%	Others
Tin Bronze	C90300	86.0-89.0 <sup>B,M</sup>	7.8-9.0	0.25	3.5-5.0	0.15	0.20	0.8	0.05	0.03	0.005	–	0.005	–	–
	C90500	86.0-89.0 <sup>B,N</sup>	9.5-10.5	0.25	1.5-3.0	0.15	0.20	0.8	0.05	0.03	0.005	–	0.005	–	–
	C90700	88.0-90.0 <sup>B,M</sup>	10.3-12.0	0.50	0.50	0.15	0.20	0.50	0.05	0.30	0.005	–	0.005	–	–
	C90800	85.0-89.0 <sup>B,M,Q</sup>	11.3-13.0	0.25	0.25	0.15	0.10	0.50	0.05	0.30	0.005	–	0.005	–	–
	C91000	84.0-86.0 <sup>B,M</sup>	14.3-16.0	0.20	1.50	0.10	0.10	0.8	0.05	0.30	0.005	–	0.005	–	–
	C91100	82.0-85.0 <sup>B,M</sup>	15.3-17.0	0.25	0.25	0.15	0.20	0.50	0.05	1.00	0.005	–	0.005	–	–
	C91600	86.0-89.0 <sup>B,J</sup>	10.0-10.8	0.25	0.25	0.15	0.10	1.2-2.0	0.05	0.25	0.005	–	0.005	–	–
	C91700	84.0-87.0 <sup>B,M,Q</sup>	11.5-12.5	0.25	0.25	0.15	0.10	1.2-2.0	0.05	0.30	0.005	–	0.005	–	–

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<sup>B</sup> In determining Cu minimum, can be calculated as Cu + Ni.

<sup>J</sup> Experience favors Bi:Se > =2:1.

<sup>M</sup> Cu + sum of named elements, 99.4 %.

<sup>N</sup> Cu + sum of named elements, 99.7 %.

<sup>Q</sup> Cu + Sn + Pb + Ni + P = 99.5 % min.