THE FEDERAL METAL CO.

High Leaded 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
High Leaded Tin Bronze	C93200	82.0-84.0B,G	6.5-7.5	6.5-7.7	2.5-4.0	0.20	0.30	0.8	0.08	0.03	0.005	–	0.005	–	–
	C93400	82.0-85.0B,G	7.3-9.0	7.0-8.7	0.8	0.20	0.30	0.8	0.08	0.03	0.005	–	0.005	–	–
	C93500	83.0-85.0B,G	4.5-5.5	8.5-9.7	0.50-1.5	0.10	0.30	0.8	0.08	0.04	0.005	–	0.005	–	–
	C93600	79.0-82.0C	6.3-7.7	11.3-13.0	1.0	0.15	0.50	0.8	0.08	0.05	0.005	–	0.005	–	–
	C93700	78.0-81.0B,G	9.3-10.7	8.3-10.7	0.8	0.10	0.50	0.50	0.08	0.05	0.005	–	0.005	–	–
	C93800	76.0-79.0G	6.5-7.5	14.0-16.0	0.8	0.10	0.50	0.8	0.08	0.05	0.005	–	0.005	–	–
	C93900	76.5-79.5E	5.3-7.0	14.0-17.7	1.5	0.35	0.50	0.8	0.08	0.05	0.005	–	0.005	–	–
	C94000	69.0-72.0F	12.3-14.0	14.0-15.7	0.50	0.25	0.50	0.50-1.0	0.08	0.05	0.005	–	0.005	–	–
	C94100	74.0-79.0F	4.7-6.5	15.0-21.7	1.0	0.10	0.7	0.8	0.08	0.05	0.005	–	0.005	–	–
	C94300	69.0-72.0B,G	4.7-5.8	23.0-27.0	0.8	0.10	0.7	0.8	0.08	0.05	0.005	–	0.005	–	–
	C94400	78.0-82.0G	7.3-9.0	9.0-11.7	0.8	0.10	0.7	0.8	0.08	0.05	0.005	–	0.005	–	–
	C94500	70.0-75.0G	6.3-8.0	16.0-21.5	1.0	0.10	0.7	0.8	0.08	0.05	0.005	–	0.005	–	–

[B] In determining Cu minimum, can be calculated as Cu + Ni.
[C] Cu + sum of named elements, 99.3%.
[H] Total named elements = 99.5% min.
[Q] Cu + Sn + Pb + Ni + P = 99.5% min.