



CONCAST

METAL PRODUCTS CO.

Lead-Free | Low-Lead Alloys and Concast

GREEN ALLOYS™

Copper and copper alloys have long been very important materials for pipes, fittings, faucets and plumbing components. For decades, the trend to reduce lead in plumbing systems has thrived. Within our lead-free replacement alloys, lead is replaced by other elements, but the products still offer exceptional lubricity, tightness, wear, strength, hardness and machinability. The quality of the alloys remains exceptional while the concerns surrounding the use of lead disappear.

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Standard-Stocked Alloys

C89835 | C90300 | C95400 | C95500 | C95900

Other Available Alloys

C87850 | C89325 | C89831 | C89833 | C89844
C90800 | C90810

Lead-Free/Low-Lead Alloys Overview

	Copper Alloy UNS No.	Cu%	Pb%	Sn%	Zn%	Fe%	P%	Ni%	Al%	Bi%	As%	Mn%	S%	Sb%	Si%
Bismuth Based															
	C89325	84.00-88.00	0.10	9.00-11.00	1.00	0.15	0.10	1.00 ³	0.005	2.70-3.70			0.08	0.50	0.005
	C89831	87.00-91.00	0.10	2.70-3.70	2.00-4.00	0.30	0.05	1.00 ³	0.005	2.70-3.70			0.08	0.25	0.005
	C89833	86.00-91.00	0.09	4.00-6.00	2.00-6.00	0.30	0.05	1.00 ³	0.005	1.70-2.70			0.08	0.25	0.005
	C89835	85.00-89.00	0.09	6.00-7.50	2.00-4.00	0.20	0.10	1.00 ³	0.005	1.70-2.70			0.08	0.35	0.005
	C89844	83.00-86.00	0.20	3.00-5.00	7.00-10.00	0.30	0.05	1.00 ³	0.005	2.00-4.00			0.08	0.25	0.005
Silicon Brass															
	C87850	75.00-78.00	0.09	0.30	Rem.	0.10	0.05-0.20	0.20 ³				0.10		0.10	2.70-3.40
High Tin															
	C90300	86.00-89.00 ¹	0.30	7.50-9.00	3.00-5.00	0.20	0.05 ²	1.00 ³	0.005				0.05	0.20	0.005
	C90800	85.00-90.00 ¹	0.25	11.00-13.00	0.25	0.15	0.30 ²	0.50 ³	0.005				0.05	0.20	0.005
	C90810	Rem. ¹	0.25	11.00-13.00	0.30	0.15	0.15-0.80 ²	0.50 ³	0.005				0.05	0.20	0.005
Aluminum Bronze															
	C95400	83.00 min				3.00-5.00		1.50 ³	10.00-11.50			0.50			
	C95500	78.00 min				3.00-5.00		3.00-5.50 ³	10.00-11.50			3.50			
	C95900	Rem.				3.00-5.00		0.50 ³	12.00-13.50			1.50			

¹In determining Cu min., Cu may be calculated as Cu + Ni. ²For continuous castings, P shall be 1.5%, max. ³Ni value includes Co.
 Note: Unless otherwise noted, single values represent maximums.

 Lead-Free Alloy  Low-Lead Alloy  Standard-Stocked Alloy  Other Available Alloy