



CONCAST

METAL PRODUCTS CO.

Proven Integrity. Delivering Value.

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.

14315 State Route 113
Wakeman, OH 44889
800.626.7071 phone
724.538.3956 fax
sales@concast.com

Standard-Stocked Alloys

C89835 | C90300 | C95400 | C95500 | C95900













Other Available Alloys

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

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■ Concast Metal Products Co. is certified to ISO 9001 and AS9100

Lead-Free/Low-Lead Alloys Overview

	Copper Alloy UNS No.	Cu%	Pb%	Sn%	Zn%	Fe%	P%	Ni% ³	Al%	Bi%	Mn%	S%	Sb%	Si%
Silicon Brass														
	C87850	75.00-78.00	0.02*-0.09	0.30	Rem.	0.10	0.05-0.20	0.20			0.10		0.10	2.70-3.40
Bismuth Tin Bronze														
	C89325	84.00-88.00	0.10	9.00-11.00	1.00	0.15	0.10	1.00	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	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	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	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	0.005	2.00-4.00		0.08	0.25	0.005
High Tin Bronze														
	C90300	86.00-89.00 ¹	0.30	7.50-9.00	3.00-5.00	0.20	1.50	1.00	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	0.50	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	0.005			0.05	0.20	0.005
Aluminum Bronze														
	C95400	83.00 min				3.00-5.00		1.50	10.00-11.50		0.50			
	C95500	78.00 min				3.00-5.00		3.00-5.50	10.00-11.50		3.50			
	C95900	Rem.				3.00-5.00		0.50	12.00-13.50		1.50			

*Pb content is greater than 0.02%. ²In 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



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