



Proven Integrity. Delivering Value.

## 500 Series Cast and Drawn Alloys



### Concast Is the Only **Domestic** Producer of Phosphor Bronze

Concast today means value for the future. By selecting Concast Metal Products Co. as your supplier of **500 Series Alloys**, you are creating immediate value for your business—value that you can pass on to your customers.

We provide our customers a high-quality, reliable supply of 500 series cast and drawn alloys (510, 521, 534, and 544) as an on-demand inventory of finished goods.

500 Series Cast and Drawn Alloys		
COPPER ALLOY UNS NO.	ASTM	PRODUCT DESCRIPTION
C51000*	B139	Phosphor Bronze
C52100	B139	Phosphor Bronze
C53400	B139	Phosphor Bronze
C54400*	B139	Phosphor Bronze

\*standard-stocked alloy

- **Concast provides 510 and 544 alloys as standard-stocked products.**
- Concast offers you a “Made in the U.S.A.” source of supply.
- Concast works to continually improve consistency, increase yields, and extend tool life.

*Contact us today to find out how we can improve the reliability and profitability of your extruded or cast and drawn alloy supply chain.*



800.626.7071



sales@concast.com

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

[www.concast.com](http://www.concast.com)

Concast Metal Products Co. is a manufacturer of specialty continuous-cast copper alloys. Concast has achieved a strong and stable market position through a sharp focus on evolving technologies, quality control, and a high level of customer service. Our inventory of over 1,100 standard sizes is the largest inventory of standard-stocked, continuous-cast alloys in North America.

■ Concast is ISO 9001 and AS9100 QMS certified.

# 500 Series Overview

## Typical Uses

Category	Applications
Architecture	bridge bearing plates
Building	thermostat bellows
Consumer	coinage, cymbals, power conductor for electro-surgical pencil
Electrical	cold headed parts, electrical connectors, electrical flexing contact blades, electromechanical spring components, electronic and precision instrument parts, electronic connectors, fuse clips, resistance wire, switch parts, wire brushes
Fasteners	cotter pins, fasteners, heavy duty fasteners, lock washers
Industrial	beater bar, bellows, bourdon tubing, chemical hardware, heavy duty clips, clutch disks, cold headed parts, diaphragms, doctor blades for the paper industry, gears, perforated sheets, pinions, pneumatic hammers, pressure responsive elements, sleeve bushings, springs, heavy duty springs, helical extension springs, helical torsion springs, textile machinery, thrust bearings, truss wire, welding rods, welding wire, well drill equipment
Marine	marine parts

\*standard-stocked alloy.

## Chemical Composition

Copper Alloy UNS No.	Cu%	Pb%	Sn%	Zn%	Fe%	P%
C51000	Rem.	0.05	4.20-5.80	0.30	0.10	0.03-0.35
C52100	Rem.	0.05	7.00-9.00	0.20	0.10	0.03-0.35
C53400	Rem.	0.80-1.20	3.50-5.80	0.30	0.10	0.03-0.35
C54400	Rem.	3.00-4.00	3.50-4.50	1.50-4.50	0.10	0.01-0.50

Note: Single values represent maximums.

## C51000 and C54400 Stocked Size Schedule

Size O.D.	Weight Per Inch	Weight Per Foot	Size O.D.	Weight Per Inch	Weight Per Foot	Size O.D.	Weight Per Inch	Weight Per Foot
3/8	0.035	0.417	7/8	0.188	2.250	1 3/4	0.771	9.250
7/16	0.049	0.583	15/16	0.222	2.267	1 7/8	0.882	10.583
1/2	0.063	0.750	1	0.250	3.000	2	1.007	12.083
9/16	0.083	1.000	1 1/8	0.319	3.833	2 1/4	1.271	15.250
5/8	0.097	1.167	1 1/4	0.396	4.750	2 1/2	1.569	18.833
11/16	0.118	1.417	1 3/8	0.472	5.667	2 3/4*	1.917	23.000
3/4	0.139	1.667	1 1/2	0.569	6.833			
13/16	0.167	2.000	1 5/8	0.660	7.917			

\*only applicable to C54400.

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