



Proven Integrity. Delivering Value.

Power Transmission and Control Alloys and Concast



Concast today means value for the future. By selecting Concast Metal Products Co. as your supplier of **Power Transmission and Control (PTC) Alloys**, you are creating immediate value for your business—value that you can pass on to your customers.

Concast will provide you the **PTC Alloys** quality, service, and value you need to make your business a success.

PTC Alloys From Concast				
STANDARD-STOCKED ALLOYS				
C86300	C90300	C93200	C95400	C95500
OTHER AVAILABLE ALLOYS				
C90700	C91100	C92900	C93700	C93800

Power Transmission and Control Applications:

- Linear Drives and Gears
- Production Equipment
- Bearings
- Hydraulics
- Compressed Air

Reach out to us today to find out how we can improve the reliability and profitability of your PTC alloy supply chain.

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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 1,000 standard sizes is the largest inventory of standard-stocked, continuous-cast alloys in North America.

■ Concast is ISO 9001 and AS9100 QMS certified.

Power Transmission and Control-Related Alloys Overview

General Information

Copper Alloy UNS No.	ASTM Spec	Material Description	Benefits	Applications
C86300*	B505	Manganese Bronze	hardness, good corrosion resistance, high wear resistance	production equipment, bearings, hydraulics, compressed air
C90300*	B505	Tin Bronze	hardness, good corrosion resistance, high wear resistance	linear drives and gears
C90700	B505	Tin Bronze	hardness, good corrosion resistance, high wear resistance	linear drives and gears
C91100	B22	High Tin Bronze	hardness, good corrosion resistance, high wear resistance	linear drives and gears
C92900	B505	Leaded Nickel-Tin Bronze	good corrosion resistance, high wear resistance	hydraulics, compressed air
C93200*	B505	Leaded Tin Bronze	high wear resistance, semi-self-lubricating, good pressure tightness	bearings, hydraulics, compressed air
C93700	B505	High-Leaded Tin Bronze	high wear resistance, semi-self-lubricating, good pressure tightness	hydraulics, compressed air
C93800	B505	High-Leaded Tin Bronze	high wear resistance, semi-self-lubricating, good pressure tightness	hydraulics, compressed air
C95400*	B505	Aluminum Bronze	high strength, tarnish resistant, good anti-frictional characteristics, good corrosion resistance	linear drives and gears, production equipment, bearings, hydraulics, compressed air
C95500*	B505	Nickel-Aluminum Bronze	high strength, tarnish resistant, good anti-frictional characteristics, good corrosion resistance	linear drives and gears, production equipment, bearings, hydraulics, compressed air

*standard-stocked alloy.

Chemical Composition

Copper Alloy UNS No.	Cu%	Pb%	Sn%	Zn%	Fe%	P% ³	Ni% ⁴	Al%	Mn%	S%	Sb%	Si%
C86300	60.00-66.00 ¹	0.20	0.20	22.00-28.00	2.00-4.00		1.00	5.00-7.50	2.50-5.00			
C90300	86.00-89.00 ¹	0.30	7.50-9.00	3.00-5.00	0.20	0.05	1.00	0.005		0.05	0.20	0.005
C90700	88.00-90.00 ¹	0.50	10.00-12.00	0.50	0.15	0.30	0.50	0.005		0.05	0.20	0.005
C91100	82.00-85.00 ¹	0.25	15.00-17.00	0.25	0.25	1.00	0.50	0.005		0.05	0.20	0.005
C92900	82.00-86.00 ¹	2.00-3.20	9.00-11.00	0.25	0.20	1.50	2.80-4.00	0.005		0.05	0.25	0.005
C93200	81.00-85.00 ¹	6.00-8.00	6.30-7.50	1.00-4.00	0.20	1.50	1.00	0.005		0.08	0.35	0.005
C93700	78.00-82.00	8.00-11.00	9.00-11.00	0.80	0.70 ²	1.50	0.50	0.005		0.08	0.50	0.005
C93800	75.00-79.00	13.00-16.00	6.30-7.50	0.80	0.15	1.50	1.00	0.005		0.08	0.80	0.005
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			

¹In determining Cu min., Cu may be calculated as Cu + Ni. ²Fe shall be 0.35% max. when used for steel-backed bearings.

³For continuous castings, P shall be 1.5% max. ⁴Ni value includes Co.

Note: Unless otherwise noted, single values represent maximums.



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