



Proven Integrity. Delivering Value.

C642 Aluminum Bronze Offers Excellent Corrosion Resistance, Machinability, and Strength

Concast today means value for the future. By selecting Concast Metal Products Co. as your supplier of **AMS 4634-C64200 Aluminum Bronze**, you are creating immediate value for your business—value that you can pass on to your customers.

Concast will provide you the **AMS 4634-C64200** quality, service, and value you need to make your business a success.

AMS 4634-C64200 Alloy
✓ **Standard-Stocked Product**



AMS 4634-C64200 Typical Uses

CATEGORY	PRODUCT
Automotive	automobile engine valve guides
Electrical	pole line hardware
Fasteners	bolts, nuts
Industrial	cams, gears, valve bodies, valve components, valve stems
Marine	hardware

- **Concast offers C642 alloy as a standard-stocked product.**
- 32 of the most popular sizes in stock
- Consult mill for additional size requirements

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

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.

AMS 4634-C64200 Overview

Chemical Composition

Cu% ¹	Pb%	Sn%	Zn%	Fe%	Ni% ²	Al%	Mn%	Si%
Rem.	0.05	0.20	0.50	0.30	0.25	6.30-7.60	0.10	1.50-2.20

¹Cu value includes Ag. ²Ni value includes Co. Note: Single values represent maximums.

Mechanical Properties

Tensile Strength, min		Yield Strength, at 0.5% Extension Under Load, min		Elongation, in 4D, min	Hardness, Internal
ksi	MPa	ksi	MPa	%	HRB
SIZE RANGE: UP TO 1/2" INCLUSIVE					
90	621	45	310	9	>80 inclusive
SIZE RANGE: OVER 1/2" TO 1" INCLUSIVE					
85	586	45	310	12	>80 inclusive
SIZE RANGE: OVER 1" TO 2" INCLUSIVE					
80	552	42	290	12	>80 inclusive
SIZE RANGE: OVER 2" TO 3" ROD INCLUSIVE					
75	517	35	241	15	>80 inclusive

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
0.1875	0.008	0.092	0.8750	0.170	2.036	2.0000	0.876	10.507
0.2500	0.014	0.170	0.9375	0.194	2.326	2.1250	1.005	12.063
0.3125	0.022	0.268	1.0000	0.222	2.664	2.2500	1.122	13.464
0.3750	0.031	0.369	1.0625	0.249	2.984	2.3750	1.339	16.067
0.4375	0.042	0.509	1.1250	0.279	3.351	2.5000	1.389	16.672
0.5000	0.055	0.665	1.2500	0.343	4.113	2.7500	1.664	19.972
0.5625	0.070	0.838	1.3750	0.415	4.977	3.0000	1.988	23.854
0.6250	0.086	1.026	1.5000	0.504	6.053	4.0000	3.557	42.686
0.6875	0.104	1.252	1.6250	0.582	6.978	5.0000	5.456	65.468
0.7500	0.125	1.504	1.7500	0.674	8.090	6.0000	8.027	96.319
0.8125	0.145	1.736	1.8750	0.771	9.250			

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