



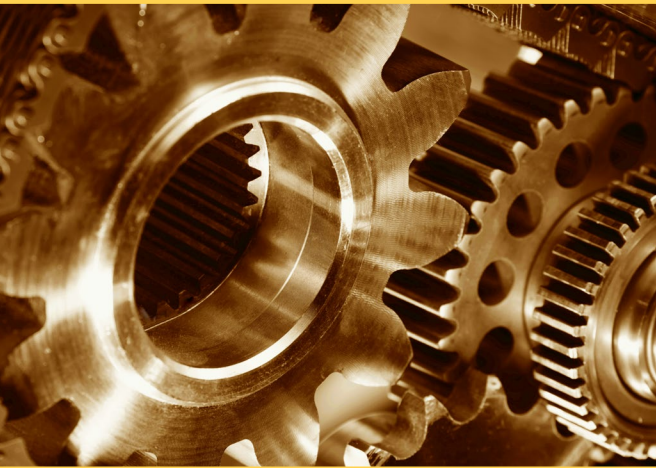
Proven Integrity. Delivering Value.

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

Reach out to 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
724.538.3956 fax
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 1,000 standard sizes is the largest inventory of standard-stocked, continuous-cast alloys in North America.

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

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 | | | |