

# AMS 4640-C63000

C630 nickel-aluminum bronze offers excellent resistance to corrosion, wear, shock, and abrasion. It is a standard-stocked item in 50 sizes of solids.

Product description	Nickel-aluminum bronze
Tempers	HR50 drawn and stress relieved, or TQ50 temper annealed
Solids	3/8" to 10" O.D.
Hex*	1/2" to 2" O.D.
Standard lengths	144" *Available, but not standard stocked

## Typical uses:

### Industrial:

- aircraft parts, balls, bearings, bushings, cams, condenser tube for power stations and desalting units, corrosion resistant articles, gears, heat exchanger flanges, hydraulic bushings for earth moving equipment, plunger tips, pump parts, pump shafts, shafting, structural members, tanks, valve balls, valve guides, valve seats, welded piping systems

### Marine:

- bolts, nuts, propellers, pump parts, ship propellers

### Plumbing:

- faucets

## Wieland Concast certifications

- AS9100:2016-certified quality management system
- ISO 9001:2015-certified quality management system

## Standard stocked

Wieland Concast provides C630 as a standard-stocked product



## AMS 4640-C63000 overview

### Chemical composition

Cu (%) <sup>1</sup>	Sn (%)	Zn (%)	Fe (%)	Ni (%)	Al (%)	Mn (%)	Si (%)
Remain	0.20	0.30	2.00-4.00	4.00-5.50	9.00-11.00	1.50	0.25

Chemical composition according to AMS 4640

<sup>1</sup>Cu value includes Ag.

Note: Cu + Ag + sum of named elements, 99.5% min. Single values represent maximums.

### 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
0.3750	0.030	0.362	1.7500	0.656	7.867	4.5000	4.391	52.689
0.5000	0.054	0.652	1.8750	0.756	9.073	4.7500	4.872	58.468
0.6250	0.082	0.989	2.0000	0.846	10.152	5.0000	5.350	64.196
0.6875	0.102	1.222	2.0625	0.898	10.770	5.2500	5.930	71.158
0.7500	0.119	1.431	2.1250	0.949	11.388	5.5000	6.479	77.739
0.8125	0.141	1.702	2.2500	1.077	12.923	5.7500	7.059	84.700
0.8750	0.165	1.978	2.3750	1.189	14.262	6.0000	7.800	93.600
0.9375	0.189	2.240	2.5000	1.319	15.824	6.5000	9.091	109.091
1.0000	0.213	2.561	2.6250	1.454	17.443	6.7500	9.800	117.600
1.0625	0.240	2.875	2.7500	1.592	19.108	7.0000	10.491	125.895
1.1250	0.267	3.205	2.8750	1.778	21.336	7.5000	12.099	145.186
1.1875	0.297	3.561	3.0000	1.977	23.727	8.0000	13.557	162.679
1.2500	0.334	4.008	3.2500	2.393	28.717	8.5000	15.410	184.920
1.3750	0.399	4.791	3.5000	2.658	31.895	9.0000	17.422	209.075
1.4375	0.444	5.334	3.7500	3.052	36.632	9.5000	19.028	228.336
1.5000	0.480	5.760	4.0000	3.485	41.820	10.0000	21.267	255.200
1.6250	0.559	6.708	4.2500	3.879	46.542			

For further information please contact us here:

P +1 440 965 4455 | [sales.concast@wieland.com](mailto:sales.concast@wieland.com) | [concast.com](http://concast.com)

Wieland Concast | 14315 State Route 113 | Wakeman, OH 44889

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