

C69300

Wieland Concast provides C69300†, an excellent replacement for leaded fittings. With its corrosion-resistant properties, it is an outstanding solution for water supply and plumbing applications.

†C69300 ECO BRASS® is produced by our partner, Wieland Chase.

Product description	Lead-free* brass
Temper	H02 half hard
Solids	0.375" to 2.50"
Hex	0.437" to 2.00"
Shapes	Consult mill
Standard lengths	144"***

*This product complies with 0.25% weighted average lead content on wetted surfaces in accordance with Safe Water Drinking Act (SDWA) / Federal Public Law No. 111-380.

**Consult mill for other lengths

C69300 compliance

- Federal Safe Drinking Water Act - SDWA
- S.3874 Reduction of Lead in Drinking Water Act
- NSF/ANSI/CAN 61-2022

Typical uses:

Automotive:

- fluid connectors, sensor bodies, thermostat parts

Industrial:

- automatic screw machine parts, bolts, condenser tube plate, nuts, pneumatic fittings, pump parts, screw machine parts, valve bodies for water, valve stems

Marine:

- marine products, propeller shafts

Plumbing:

- faucet stems, faucets, plumbing fittings, water meter cases



C69300 overview

Chemical composition

Cu (%)	Pb (%)	Sn (%)	Zn (%)	Fe (%)	P (%)	Ni (%)	Mn (%)	Si (%)
73.00-77.00	0.09 max	0.20 max	Remain	0.10 max	0.04-0.15	0.10 max	0.10 max	2.70-3.40

Chemical composition according to ASTM B371

Diameter / tolerances +/-

Diameter	Round	Hexagonal, octagonal
>0.150"-0.500"	0.002"	0.004"
>0.500"-1.000"	0.003"	0.005"
>1.000"-2.000"	0.004"	0.006"
>2.000"	0.20%	0.40%

Mechanical properties

Tensile strength, min	Yield strength, at 0.5% extension under load, min	Elongation, in 4x diameter or specimen thickness, min	Rockwell "B" hardness	Size range
ksi	ksi	%	max HRB approx	
85	45	5	85	Up to 0.500" inclusive
75	35	10	80	Over 0.500" to 1.000" inclusive
70	30	10	75	Over 1.000" to 2.500" inclusive

Mechanical properties according to ASTM B371

Fabrication properties

Technique	Suitability	Technique	Suitability	Technique	Suitability
Soldering	Excellent	Coated Metal Arc Welding	Good	Capacity for Cold Working	Poor
Brazing	Good	Spot Weld	Good	Capacity for Hot Forming	Excellent
Oxyacetylene Welding	Good	Seam Weld	Good	Forgeability Rating	95
Gas Shielded Arc Welding	Good	Butt Weld	Good	Machinability Rating	85

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

P 440-965-4455 | sales.concast@wieland.com | concast.com



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