

# C69300

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

<sup>†</sup>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          |

For further information please contact us here:

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