

# C95410HT

Continuous cast

|                     |  |
|---------------------|--|
| Product description | Aluminum bronze  |
| Solids              | 1/2" to 9" O.D.  |
| Tubes               | 1 1/8" to 9" O.D.  |
| Rectangles          | Up to 15"  |
| Standard lengths    | 24"*   |
| Shape/form          | Semi-finished, mill stock or near-net shapes, anode, bar stock, billet/bloom, squares, hex, plate, profile or structural shape, flats/rectangular bar<br><br>*Consult mill for other lengths |

## Typical uses

### Industrial

Bearings, bushings, gears, pickling baskets, pickling hooks, spur gears, valve components, worms

*Note: Also available in heat-treated condition.*

## Similar or equivalent specification

| CDA    | ASTM          | SAE | AMS | Federal | Military | Other |
|--------|---------------|-----|-----|---------|----------|-------|
| C95410 | B505<br>B505M |     |     |         |          |       |

## Chemical composition

| Cu (%)    | Fe (%)    | Ni (%) <sup>1</sup> | Al (%)      | Mn (%) |
|-----------|-----------|---------------------|-------------|--------|
| 83.00 min | 3.00-5.00 | 1.50-2.50           | 10.00-11.50 | 0.50   |

Chemical composition according to ASTM B505/B505M-23

<sup>1</sup>Ni value includes Co.

Note: Cu + sum of named elements, 99.5% min. Unless otherwise noted, single values represent maximums.

## Machinability

| Copper alloy UNS no. | Machinability rating | Density (lb/in <sup>3</sup> at 68° F) |
|----------------------|----------------------|---------------------------------------|
| C95410HT             | 60                   | 0.269                                 |

Note: HT = heat treated.

C95410HT continued

## Mechanical properties

| Tensile strength, min |     | Yield strength, at 0.5% extension under load, min |     | Elongation, in 2 in. or 50 mm, min | Brinell hardness (3000 kg load) | Remarks      |
|-----------------------|-----|---|-----|------------------------------------|---------------------------------|--------------|
| ksi                   | MPa | ksi   | MPa | %                                  | typical BHN                     |              |
| 95                    | 655 | 45  | 310 | 10                                 | 177                             | Heat treated |

*Mechanical properties according to ASTM B505/B505M-23*