

C95410HT

Continuous Cast

| | |
|-----------------------------|---|
| Product Description: | Aluminum Bronze |
| Solids: | ½" to 9" O.D. |
| Tubes: | 1⅛" 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 |
| | *Consult mill for other lengths |

Typical Uses

Industrial bearings, bushings, gears, pickling baskets, pickling hooks, spur gears, valve components, worms

Similar or Equivalent Specification

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

Chemical Composition

| Cu% | Fe% | Ni% ¹ | 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-18

¹Ni 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 ³ at 68 °F) |
|----------------------|----------------------|---------------------------------------|
| C95410HT | 60 | 0.269 |

Note: HT = heat treated.



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-18