

# Alloy: C95900

✓ STANDARD STOCKED PRODUCT

Cast • Green Alloy • Antimicrobial

C95900

<b>Bronze Family:</b>	Aluminum Bronze
<b>Solids:</b>	½" to 9" OD
<b>Tubes:</b>	Consult Mill
<b>Rectangles:</b>	Up to 15"
<b>Standard Lengths:</b>	144"

## Typical Uses

The aluminum bronzes are characterized by high strength and excellent corrosion resistance. Alloys containing more than 9.5% Al can be heat treated, some to tensile strengths exceeding 120 ksi (827 MPa). Uses include a variety of heavy duty mechanical and structural products including gears, worm drives, valve guides and seats. Excellent heavy duty bearing alloys, but do not tolerate misalignment or dirty lubricants, and generally should be used against hardened steel shafts, with both shaft and bearing machined to fine surface finishes.

## Similar or Equivalent Specification

CDA	ASTM	ASARCON	SAE	AMS	FEDERAL	INGOT	MILITARY	OTHER
C95900	ASTM B505							

## Chemical Composition

Alloy	Cu%	Sn%	Pb%	Zn%	Fe%	Ni%	Sb%	P%	S%	Al%	Mn%	Si%
C95900	Remainder	N/A	N/A	N/A	3.00- 5.00	0.50	N/A	N/A	N/A	12.00- 13.50	1.50	N/A

Chemical Composition according to ASTM B505-08 Note: Single values represent maximums.

## Machinability

Alloy	Machinability Rating	Density (lb/cu in.)
C95900	N/A	0.255

## Mechanical Properties

Tensile Strength, min		Yield Strength, at .5% extension under load min		Elongation in 2 in. or 50 mm min, %	Brinell Hardness, min	Remarks
ksi	MPa	ksi	MPa			
N/A	N/A	N/A	N/A	N/A	241 (3000 kg)	

Mechanical Properties according to ASTM B505-08