C95900

Product Description:	Aluminum Bronze
Solids:	1" to 5" O.D.
Tubes:	Consult Mill
Rectangles:	Up to 7"
Standard Lengths:	144"
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
Compliance:	C95900 is compliant with key legislation including (1) Federal Safe Drinking Water Act 1974 – SDWA, (2) Federal Reduction of Lead in Drinking Water Act of 2011 and (3) California AB1953

Typical Uses

Industrial gears, worm drives

Similar or Equivalent Specification

CDA	ASTM	SAE	AMS	Federal	Military	Other
C95900	B505 B505M					

Chemical Composition

Cu%	Fe%	Ni%[1]	Al%	Mn%
min	3.00-5.00	0.50	12.00-13.50	1.50

Chemical Composition according to ASTM B505/B505M-18

[1]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^3 at 68 °F)
C95900	10	0.255

RANDALL

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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	%	minimum BHN	
					241	

Mechanical Properties according to ASTM B505/B505M-18

Thermal Properties

Treatment	Min*	Max*	Value*	Time**
Stress Relief			600	
Solution Treatment				0
Annealing	1100	1300		1

Thermal Properties provided by CDA

*Temperature is measured in Fahrenheit. **For Stress Relief, Solution Treatment and Annealing - Time is measured in hours/inch of thickness. For Precipitation Heat Treatment - Time is measured in hours.