

C94300 High Leaded Tin Bronze

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- **Bronze C94300:** C94300 High Leaded Tin Bronze
- **Solids:** 1/2" to 10" OD
- **Tubes:** 1" to 16" OD
- **Rectangles:** Up to 10"
- **Standard Lengths:** 144"

SIMILAR OR EQUIVALENT SPECIFICATION

CDA	ASTM	ASARCON	SAE	AMS	Federal	Ingot#	Military	Other Desc
C94300	B505				QQ-C-390B TYPE III		MIL-B-16261 GRADE V	

CHEMICAL COMPOSITION (ACCORDING TO ASTM B505-08)

Cu%	Sn%	Pb%	Zn%	Fe%	Ni%	Sb%	P%	S%	Al%	Mn%	Si%
67.00-72.00	4.50-6.00	23.00-27.00	0.80	0.15	1.00	0.80	1.50	0.08	0.005	N/A	0.005
Note: Single values represent maximums.											

MECHANICAL PROPERTIES (ACCORDING TO ASTM B505-08)

Tensile Strength (min)		Yield Strength (at .5% extention under load min)		Elongation (in 2in. or 50mm min, %)		Brinell Hardness (min)	Remarks
Ksi	MPa	Ksi	MPa				
21	145	15	103	7		N/A	

MACHINABILITY

Alloy	Rating	Density
C94300	80	0.336

PHYSICAL PROPERTIES (PROVIDED BY CDA)

	US Customary	Metric
Incipient Melting	600 F	316 C
Density	0.336 lb/in3 at 68 F	9.3 gm/cm3 @ 20 C
Specific Gravity	9.300	9.3
Electrical Resistivity	113.50 ohms-cmil/ft @ 68 F	18.87 microhm-cm @ 20 C

	US Customary	Metric
Electrical Conductivity	9 %IACS @ 68 F	0.053 MegaSiemens/cm @ 20 C
Thermal Conductivity	36.20 Btu · ft/(hr · ft ² ·°F) at 68F	62.7 W/m · °K at 20 C
Specific Heat Capacity	0.090 Btu/lb/°F at 68 F	377.1 J/kg · °K at 293 K
Modulus of Elasticity in Tension	10500 ksi	72400 MPa
Magnetic Permeability	1	1.0

FABRICATION PROPERTIES (PROVIDED BY CDA)

Joining Technique	Suitability
Soldering	<i>Good</i>
Brazing	<i>Poor</i>
Oxyacetylene Welding	<i>Not Recommended</i>
Gas Shielded Arc Welding	<i>Not Recommended</i>
Coated Metal Arc Welding	<i>Not Recommended</i>

THERMAL PROPERTIES (PROVIDED BY CDA)

Treatment	Temp./Time - US	Temp./Time - SI
Stress Temperature	500	260
Solution Minimum		
Solution Maximum		
Solution Time	0.0	
Solution Medium	None	
Precipitation Value		
Precipitation Time		
Precipitation Medium	None	
Annealing Minimum		
Annealing Maximum		
Annealing Time		
Hot Works Minimum		
Hot Works Maximum		

ADDEESS:

Conex Bronze Fittings

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KEYWORDS:

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