

## CDA C93600 High Leaded Tin Bronze

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- **Bronze C93600:** High Leaded Tin Bronze
- **Solids:** 1/2" to 13" OD
- **Tubes:** 1" to 16" OD
- **Rectangles:** Up to 20"
- **Standard Lengths:** 144"

## SIMILAR OR EQUIVALENT SPECIFICATION

CDA	ASTM	ASARCON	SAE	AMS	Federal	Ingot#	Military	Other Desc
C93600	B505							

## CHEMICAL COMPOSITION (ACCORDING TO ASTM B505-08)

Cu%	Sn%	Pb%	Zn%	Fe%	Ni%	Sb%	P%	S%	Al%	Mn%	Si%
79.00-83.00	6.00-8.00	11.00-13.00	1.00	0.20	1.00	0.55	1.5	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% extension under load min)		Elongation (in 2in. or 50mm min, %)	Brinell Hardness (min)	Remarks
Ksi	MPa	Ksi	MPa			
33	227	20	138	10		

## MACHINABILITY

Alloy	Rating	Density
C93600	80	0.325

## PHYSICAL PROPERTIES (PROVIDED BY CDA)

	US Customary	Metric
Melting Point - Liquidus	1720 F	938 C
Melting Point - Solidus	1550 F	843 C
Density	0.325 lb/in <sup>3</sup> at 68 F	9.0 gm/cm <sup>3</sup> @ 20 C
Specific Gravity	90	9.0

	US Customary	Metric
<b>Electrical Conductivity</b>	11 %IACS @ 68 F	0.064 MegaSiemens/cm @ 20 C
<b>Thermal Conductivity</b>	28.50 Btu · ft/(hr · ft <sup>2</sup> ·°F)at 68F	49.36 W/m · °K at 20 C
<b>Coefficient of Thermal Expansion</b>	10.30 ·10 <sup>-6</sup> per of (68-392 F)	18.54 ·10 <sup>-6</sup> per °C (20-200 C)
<b>Specific Heat Capacity</b>	0.090 Btu/lb/°F at 68 F	377.1 J/kg · °K at 293 K
<b>Modulus of Elasticity in Tension</b>	14000 ksi	96516 MPa

### **FABRICATION PROPERTIES (PROVIDED BY CDA)**

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

### **THERMAL PROPERTIES (PROVIDED BY CDA)**

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

#### **ADDEESS:**

Conex Bronze Fittings

#### **CONTACTS:**

PHONE : 91-22-43449300/27

FAX : 91 22 22834046

EMAIL : [sales@conexbronze.com](mailto:sales@conexbronze.com)

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**KEYWORDS:**

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