

C92900 Tin Bronze

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- **Bronze C92900:** Leaded Nickel 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
C92900	B505	102N				206		

CHEMICAL COMPOSITION (ACCORDING TO ASTM B505-08)

Cu%	Sn%	Pb%	Zn%	Fe%	Ni%	Sb%	P%	S%	Al%	Mn%	Si%
82.00-86.00	9.00-11.00	2.00-3.20	0.25	0.20	2.80-4.00	0.25	1.5	0.05	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			
45	310	25	172	8		

MACHINABILITY

Alloy	Rating	Density
C92900	40	0.320

PHYSICAL PROPERTIES (PROVIDED BY CDA)

	US Customary	Metric
Melting Point - Liquidus	1887 F	1031 C
Melting Point - Solidus	1575 F	857 C
Incipient Melting	600 F	316 C
Density	0.320 lb/in ³ at 68 F	8.86 gm/cm ³ @ 20 C

	US Customary	Metric
Specific Gravity	8.860	8.86
Electrical Resistivity	113.50 ohms-cmil/ft @ 68 F	18.87 microhm-cm @ 20 C
Electrical Conductivity	9 %IACS @ 68 F	0.053 MegaSiemens/cm @ 20 C
Thermal Conductivity	33.60 Btu · ft/(hr · ft ² ·°F)at 68F	58.2 W/m · °K at 20 C
Coefficient of Thermal Expansion	9.50 ·10-6 per oF (68-392 F)	17.1 ·10-6 per °C (20-200 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	14000 ksi	96500 MPa

FABRICATION PROPERTIES (PROVIDED BY CDA)

Joining Technique	Suitability
Soldering	<i>Excellent</i>
Brazing	<i>Good</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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