C85700 Leaded Yellow Brass

- **Bronze C85700:** Leaded Yellow Brass
- **Solids:** 1/2" to 13" OD
- **Tubes:** 1 1/8 " to 9" OD
- **Rectangles:** Up to 15"
- **Standard Lengths:** 144"

SIMILAR OR EQUIVALENT SPECIFICATION

CDA	ASTM	ASARCON	SAE	AMS	Federal	Ingot#	Military	Other Desc
C85700	ASTM B505				QQ-C-390B TYPE III	405.2	MIL-C-15345 ALLOY 3	LEADED RED BRASS
					QQ-B-621 CLASS A			

CHEMICAL COMPOSITION (ACCORDING TO ASTM B505-08)

Cu%	Sn%	Pb%	Zn%	Fe%	Ni%	Sb%	P%	S%	Al%	Mn%	Si%
58.00-64.00	0.50-1.50	0.80-1.50	32.00-40.00	0.70	1.00A	N/A	N/A	N/A	0.80	N/A	0.05

Note: Single values represent maximums.
• A In determining copper minimum, copper may be calculated as copper plus nickel.

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			
40	276	14	97	15	N/A	

MACHINABILITY

Alloy	Rating	Density
C85700	80	0.304

PHYSICAL PROPERTIES (PROVIDED BY CDA)

	US Customary	Metric
Melting Point - Liquidus	1725 F	941 C
Melting Point - Solidus	1675 F	913 C
Density	0.304 lb/in3 at 68 F	8.41 gm/cm3 @ 20 C
Specific Gravity	8.410	8.41
Electrical Resistivity	470 ohms-cmil/ft @ 68 F	7.81 microhm-cm @ 20 C
Electrical Conductivity	22 %IACS @ 68 F	0.128 MegaSiemens/cm @ 20 C
Thermal Conductivity	48.50 Btu · ft/(hr · ft2·°F)at 68F	83.9 W/m · °K at 20 C
Coefficient of Thermal Expansion	12 ·10-6 per oF (68-392 F)	21.6 ·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
Modulas of Elasticity in Tension	14000 ksi	87000 MPa
Magnetic Permeability	1	1.0

FABRICATION PROPERTIES (PROVIDED BY CDA)

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Joining Technique	Suitability
Soldering	*Good*
Brazing	*Fair*
Oxyacetylene Welding	*Not Recommended*
Gas Shielded Arc Welding	*Not Recommended*
Coated Metal Arc Welding	*Not Recommended*

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		

Treatment	Temp./Time - US	Temp./Time - SI
Hot Works Minimum		
Hot Works Maximum		

ADDEESS:
Conex Bronze Fittings

CONTACTS:
PHONE : 91-22-43449300/27
FAX : 91 22 22834046
EMAIL : sales@conexbronze.com

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KEYWORDS:
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