



SHREE EXTRUSIONS LIMITED



C65100 LOW SILICON BRONZE "B"

EQUIVALENT SPECIFICATIONS

SPECIFICATIONS	DESIGNATION
ISO	CuSi1
European	CuSi1
Czech Republic	CuSi1

ASTM B98

C65100 is an engineering alloy at least as resistant to corrosion as copper itself, but much stronger, and with good fatigue endurance. 651 Bronze is an alloy noted for its brazeability, strength, corrosion resistance, and electrical properties. C65100 is one of the most weldable copper alloys. It is readily joined by all types of resistance welding. Joining by soldering or brazing is excellent. Joining by gas shielded arc welding and spot welding is also excellent, and by oxyacetylene welding, good.

Typical Uses for C65100 Low Silicon Bronze "B":

ELECTRICAL: Conduit, Pole Line Hardware, Motor, Rotor Bars **FASTENERS:** Bolts, Cable Clamps, Cap Screws, Machine Screws, Nuts, Rivets, U Bolts, Fasteners, Screws **INDUSTRIAL:** Oil Refinery Plumbing Tube, Heat Exchanger Tube, Welding Rod, Hydraulic Pressure Lines **MARINE:** Hardware

CHEMICAL COMPOSITION

	Cu	Fe	Pb	Mn	Si	Zn
Min/Max	Rem	0.8	0.05	0.7	0.80 - 2.0	1.5
Nominals	98.5000	-	-	-	1.5000	-

PHYSICAL PROPERTIES

Product Property	US Customary
Coefficient of Thermal Expansion	9.9 Å • 10 ⁻⁶ per oF (68-212 F)
Density	0.316 lb/in ³ at 68 F
Electrical Conductivity	12 %IACS @ 68 F
Electrical Resistivity	86.4 ohms-cmil/ft @ 68 F
Melting Point - Liquidus	1940 F
Melting Point - Solidus	1890 F
Modulus of Elasticity in Tension	17000 ksi
Modulus of Rigidity	6400 ksi
Specific Gravity	8.75
Specific Heat Capacity	0.09 Btu/lb/oF at 68 F
Thermal Conductivity	33.0 Btu Å • ft/(hr Å • ft ² Å • oF)at 68F

SIZES AVAILABLE :

ROUND RODS	8mm To 100 mm
HEX	10mm To 60mm
SQUARE	10mm To 60mm
FLAT	0mm Min Thickness and max Width 120mm
BILLETS	Up to 200 mm
INGOTS	As per Specification

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