



Metal Alloys Corporation



(CDA 110 / CU-ETP) ELECTROLYTIC TOUGH PITCH (ETP) COPPER

EQUIVALENT SPECIFICATIONS

SPECIFICATIONS	DESIGNATION
ISO	Cu-ETP
European	Cu-ETP
BS	Cu-ETP-2
JIS	C-1100
Russian	MO

High electrical and thermal conductivity, good corrosion resistance and solderability. C11000 is used for welding fixtures, anodes, bus bar in electrical power installations, ground straps, commutators and current carrying hardware. Its inherent fabrication qualities readily permit it to be bent, soldered, drilled, peened, riveted and formed to fit almost any design specification.

CHEMICAL COMPOSITION

	Cu	O
Min/Max	99.90 min	
Nominals	-	0.0400

PHYSICAL PROPERTIES

Product Property	US Customary
Coefficient of Thermal Expansion	9.4 $\times 10^{-6}$ per $^{\circ}$ F (68-212 F)
Coefficient of Thermal Expansion	9.6 $\times 10^{-6}$ per $^{\circ}$ F (68-392 F)
Coefficient of Thermal Expansion	9.8 $\times 10^{-6}$ per $^{\circ}$ F (68-572 F)
Density	0.322 lb/in ³ @ 68 F
Electrical Conductivity	101% IACS @ 68 F
Electrical Resistivity	10.3 ohms-cmil/ft @ 68 F
Melting Point Liquid US	1981 F
Melting Point Solid US	1949 F
Modulus of Elasticity in Tension	17000 ksi
Modulus of Rigidity	6400 ksi
Specific Gravity	8.91
Specific Heat Capacity	0.092 Btu/lb/ $^{\circ}$ F at 68 F
Thermal Conductivity	226.0 Btu \cdot ft/(hr \cdot Ft ² \cdot $^{\circ}$ F) at 68 F

SIZES AVAILABLE :

HOLLOW RODS
 ROUND RODS/BARS
 HEX
 SQUARE
 FLAT
 BILLETS
 INGOTS

Min Bore Size 20 mm and Max OD 100 mm
 8mm To 100 mm
 10mm To 60mm
 10mm To 60mm
 10mm Min Thickness and max Width 120mm
 Up to 200 mm
 As per Specification

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