



C11000 ETP COPPER

ASTM B152 ASTM B187

UNS No.	Copper
C11000	99.90 min

C11000 Copper, also known as Electrolytic Tough Pitch, is 99.90% pure copper. ETP C11000 is one of the most commonly used commercially pure coppers and is available in a variety of shapes, including plate, sheet, coil, bar, rod, wire and extruded profiles. C11000 copper has high electrical conductivity, in excess of 100% IACS, and good corrosion resistance. C11000 ETP copper has a wide range of uses, including applications in architectural, industrial, electrical, automotive and construction industries. Some common products produced out of C11000 ETP copper include roofing, gutters, radiators, switches, fasteners, conductors, cookware and heat exchangers.

Fabrication Properties

Density @ 68° F	0.322 lb/in ³
Melting Range	1949-1981° F
Hot Formability	Excellent
Cold Formability	Excellent
Machinability rating (C36000 = 100)	45
Brazing	Good
Soldering	Excellent
Gas-shielded arc welding	Fair
Oxy-acetylene welding	Not recommended
Carbon-arc welding	Not recommended
Coated metal-arc welding	Not recommended
Resistant welding: spot and seam	Not recommended
Resistance welding: butt	Good

Mechanical Properties

Temper	Designation	Tensile, min ksi (MPa)	Tensile, max ksi (MPa)
O60	Soft Anneal	-	*
H00	Eighth Hard	32 (220)	40 (275)
H01	Quarter-Hard	34 (235)	42 (295)
H02	Half Hard	37 (255)	46 (315)
H03	Three-Quarter Hard	41 (285)	50 (345)
H04	Hard	43 (295)	52 (360)

* Max 65F Rockwell Hardness

