Copper 11000 - Electrolytic Copper
UNS C11000

Applications for Copper 110

- Welding fixtures
- Anodes
- Bus bar in electrical power installations
- Ground straps
- Automotive rectifiers
- Conductors
- Glass-to-metal seals
- High resistance-ratio cryogenic shunts
- Lead-in wire seals
- Transistor component bases
- Bus conductors
- Wave guides
- Hollow conductors
- Anodes for vacuum tubes
- Microwave tubes

Copper 11000 - Electrolytic Copper Specifications (C11000)

ASME SB133	ASTM B187	ASTM B286	ASTM B49	(Nuts)
ASTM B1	ASTM B188	ASTM B298	ASTM B496	MIL B-20292
(Round Wire)	ASTM B189	ASTM B3	ASTM B506	MIL C-12168
ASTM B101	ASTM B2	ASTM B33	ASTM B556	MIL W-6712
ASTM B116	ASTM B224	ASTM B355	ASTM B638	QQ B575
ASTM B124	ASTM B226	ASTM B370	ASTM B694	SAE J461
ASTM B133	ASTM B228	ASTM B447	ASTM B738	SAE J463
ASTM B152	ASTM B229	ASTM B451	ASTM B8	UNS C11000
ASTM B172	ASTM B246	ASTM B47	ASTM F467	
ASTM B173	ASTM B272	ASTM B470	(Nuts)	
ASTM B174	ASTM B283	ASTM B48	ASTM F468	

Copper C11000 is mainly used for plumbing fittings and some electrical components not requiring extensive machining.

Copper 11000 inherent fabrication qualities readily permit it to be bent, soldered, drilled, welded, and formed to fit almost any design specification.

The machinability rating of this alloy is 20. Soldering is rated as excellent, brazing is rated as good, spot welding is not recommended, seam welding is not recommended, and butt welding is rated as good.

CHEMICAL COMPOSITION

RWMA CLASS	RWMA NUMBER	DESCRIPTION	FE	NI	CO	CR	SI	BE	ZR	AL	CU	OTHER ELEMENTS
110	11000	ELECTROLYTIC COPPER									99.90	OXYGEN .04

PHYSICAL PROPERTIES

HARDNESS ROCKWELL	CONDUCTIVITY % I.A.C.S.	YIELD STRENGTH KSI (5% EXT UNDER LOAD)	ULTIMATE TENSILE STRENGHT	ELONGATION % IN 2" OR 4" DIAMETERS
90 F	101	44	48	10