



C10100 Oxygen-Free-Electronic Copper

EQUIVALENT SPECIFICATIONS

SPECIFICATIONS	DESIGNATION
ASTM	
JIS	
EN	
ISO	

C10100 Oxygen-Free-Electronic Copper. Copper, OFE, Oxygen Free Electronic. C10100 has conductivity 101% IACS, the highest among coppers. Used for electrical and electronic conductors, wave guides, cavity resonators, superconductor matrixes, vacuum tube and solid-state devices, and glass-to-metal seals.

CHEMICAL COMPOSITION

	Cu	Pb	Ag	Zn	Fe	As	P	O	Sb	Te
Min	99.99	-	-	-	-	-	-	-	-	-
Max		0.0005	0.0025	0.0001	0.0010	0.0005	0.0003	0.0005	0.0004	0.0002

PHYSICAL PROPERTIES

Melting Point – Liquidus °F	1981
Melting Point – Solidus °F	1981
Density lb./cu in. at 68°F	0.323
Specific Gravity	8.94
Electrical Conductivity*% IACS at 68°F	101
Thermal Conductivity Btu/ sq. ft./ft.Hr/ °F at 68°F	226
Coefficient of Thermal Expansion 68-57210 ⁻⁶ per °F (68 – 572°F)	9.8
Specific Heat Capacity Btu/ lb. /°F at 68°F	0.092
Modulus of Elasticity in Tension (ksi)	17000

SIZES AVAILABLE:

ROUND RODS	1.2 mm to 250 mm
HEX	5 mm to 65 mm
SQUARE	4 mm to 60 mm
FLAT	4 mm Min Thickness and max Width 120 mm
BILLETS	Up to 200 mm
INGOTS	As per Specification

Thermal Properties

Treatment	Minimum*	Maximum*
Annealing	700	1200
Hot Treatment	1400	1600

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