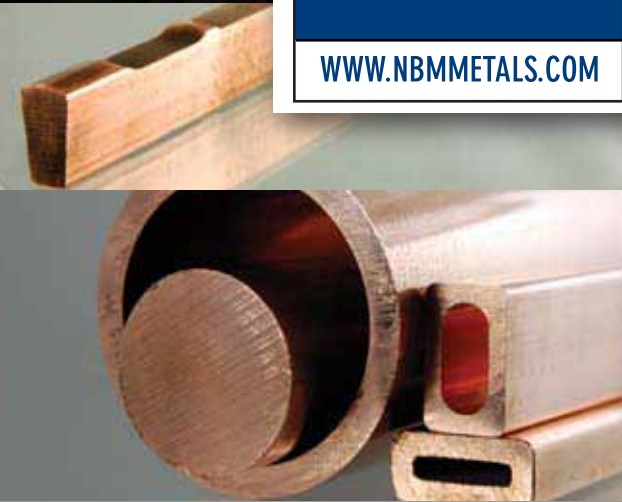




C10200
WWW.NBMMETALS.COM

OXYGEN-FREE COPPER
LEADING MANUFACTURER & MASTER DISTRIBUTOR OF BRASS, BRONZE, & COPPER ALLOYS



Offered in flat bars, square bars, round bars, bus tubes, profiles, stampings, roto-bars, wires, and forgings.
C10200 Oxygen-Free High Conductivity (OFHC) Copper characteristics are superior electrical and thermal conductivity, high impact strength, high ductility, good creep resistance, ease of welding, and low volatility under high vacuum.

Sizes Available From NBM

- RECTANGLES / FLAT BAR . . . 1/8" - 2" thick through 1/2" - 8" wide
- SQUARE BAR 1/4" - 2" square
- ROUND BAR 3/16" - 15" diameter

Spec Equivalents

ASTM B-187 / ASTM B-188 / ASTM B-49 / ASTM B-152 / ASTM B-283

Chemical Composition

	Cu ⁽¹⁾	0
min/max	99.95 min	.0010
nominal	-	-

(1) Cu value includes Ag.
Note: This is a high conductivity copper which has, in the annealed condition a minimum conductivity of 100% IACS except for Alloy C10100 which has a minimum conductivity of 101% IACS.

Typical Uses

Electrical
Bus Conductors, Bus Bar, Bus Connectors, Conductors, Electrical, Klystrons, Microwave Tubes, Transistor Components, Lead In Wire, Coaxial Cables, Copper to Glass Seals in Electronic Appliances, Busbars, Wave Guides

Industrial
Tubing, LP Gas Service, Medical Gas - Oxygen, Vacuum Seals, Coaxial Tube, Billet Mold Tube, Extrusion Cans for Powder Metallurgy



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Physical Properties

	US Customary	Metric
Melting Point - Liquidus	1981 F	1083 C
Melting Point - Solidus	1949 F	1065 C
Density*	0.323 lb/in ³ at 68 F	8.91 gm/cm ³ @ 20 C
Specific Gravity	8.94	8.91
Electrical Resistivity	10.3 ohms-cmil/ft @ 68 F	1.71 microhm-cm @ 20 C
Electrical Conductivity	101 %IACS @ 68 F	0.591 MegaSiemens/cm @ 20 C
Thermal Conductivity	226.0 Btu · ft/(hr · ft ² · °F) at 68F	391.1 W/m · °K at 20 C
Coefficient of Thermal Expansion	9.4 · 10 ⁻⁶ per °F (68-212 F)	16.9 · 10 ⁻⁶ per °C (20-100 C)
Coefficient of Thermal Expansion	9.6 · 10 ⁻⁶ per °F (68-392 F)	17.3 · 10 ⁻⁶ per °C (20-200 C)
Coefficient of Thermal Expansion	9.8 · 10 ⁻⁶ per °F (68-572 F)	17.6 · 10 ⁻⁶ per °C (20-300 C)
Specific Heat Capacity	0.092 Btu/lb/°F at 68 F	393.5 J/kg · °K at 293 K
Modulus of Elasticity in Tension	17000 ksi	117000 MPa
Modulus of Rigidity	6400 ksi	44130 MPa

Tempers Most Commonly Used

FLAT PRODUCTS	
BAR, DRAWN	H01, H04, H06, O60
BAR, ROLLED	H01, H04, H06, M20, O60
PLATE	H00, M20
WIRE, DRAWN	H04, H06, O60
WIRE ROLLED	H04, O60

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