



C14500

TELLURIUM COPPER (Deoxidized Grades)

WWW.NBMMETALS.COM

LEADING MANUFACTURER & MASTER DISTRIBUTOR OF BRASS, BRONZE, & COPPER ALLOYS



Offered in solid bars.

Tellurium Copper or Tellurium-Bearing has applications in screw machine products and parts requiring high conductivity, extensive machining, corrosion resistance, copper color, or a combination of these; electrical connectors, motor and switch parts, plumbing fittings, welding torch tips, transistor bases and furnace brazed articles. Plates can also be forged and machined from this alloy.

Sizes Available From NBM

- SOLID BAR 1/8" - 6" diameter
- RECTANGLES 1/4" x 1" - 1" x 6" thickness x width
- HEX BAR 1/4" - 2" across the flats
- SQUARE BAR 1/4" - 2" square

Spec Equivalents

- ASTM B-301, B-124
- SAE J461, J463

Chemical Composition

	Cu ^(1,2)	P	Te
min/max	99.90 min	.004 - .012	.40 - .70
nominal	99.50	.008	.55

(1) Cu value includes Ag.
 (2) Includes Te.
 Note: Includes oxygen-free or deoxidized grades with deoxidizers (such as phosphorus, boron, lithium or others) in an amount agreed upon.

Typical Uses

Electrical

Transistor Bases, Motor Parts, Electrical Connectors, Switch Parts

Other Industrial

Welding Torch Tips, Soldering Tips, Screw Machine Products, Forgings

Plumbing

Plumbing Fittings, Sprinkler Heads, Fixtures

General

EDM Anodes, Tool Making Parts, Dies

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www.nbmmetals.com



NATIONAL BRONZE & METALS, INC.

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Room Temp Tensile & Hardness Data

TEMPER	SECTION SIZE (INCHES)	TENSILE (KSI) MIN	YIELD (KSI) MIN	ELONGATION IN HD MIN
H02 (1/2 H)	All Sizes	38	30	12%

Physical Properties

Melting Point - Liquidus	1976 F
Melting Point - Solidus	1924 F
Density	0.323 lb/in ³ at 68 F
Specific Gravity	8.94
Electrical Resistivity	11.2 ohms-cmil/ft @ 68 F
Electrical Conductivity	93 %IACS @ 68 F
Thermal Conductivity	205.0 Btu · ft/(hr · ft ² ·°F) at 68F
Coefficient of Thermal Expansion	9.9 · 10 ⁻⁶ per °F (68-572 F)
Specific Heat Capacity	0.092 Btu/lb/°F at 68 F
Modulus of Elasticity in Tension	17000 ksi
Modulus of Rigidity	6400 ksi
Machinability Rating	85



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