



CA-101 / 102 OFHC Copper

Characteristics

- * 99.95 % Pure Copper
- * Highest Conductivity of all Copper Alloys, 100+% IACS
- * Corrosion Resistant
- * Good Formability
- * Excellent Conductor of Heat

Description

Oxygen Free OFHC, CDA-10100 or CDA-10200 Copper Strip is known for its characteristics of high electrical and thermal conductivity. Casting in an oxygen free environment creates a very pure copper suitable to the most demanding current carrying applications.

Specifications

ASTM-B-152

Forms Available

COIL Gauge: .002 to .090 Width: .060 to 25.000
SPOOL Gauge: .005 to .060 Width: .060 to 2.000 Weight: 5 lbs to 4,000 lbs per spool
SHEET Gauge: .002 to .060 Width: .250 to 24.500 Length: .500 to 144"
WIRE Round, Square, Flat

Typical Property Values

CHEMICAL

Copper: 99.95%

PHYSICAL

Density	0.323	lbs per cu. in. @ 68°F (annealed)
Modulus of Elasticity	17	x 10 ⁶ PSI Tension
Electrical Conductivity	101	% IACS @ 68°F (annealed)
Thermal Conductivity	226	BTU per sq. ft. per hr. @ 68°F
Coef. Of Thermal Expansion	9.8	inches/inch/ F x 10x ⁻⁶ from 68°F to 572°F

MECHANICAL

	Ann.	1/4 Hard	1/2 Hard	3/4 Hard	
Tensile Strength	26 - 38	34 - 42	37 - 46	41 - 50	x 1000
Yield (2% offset)	6 - 13	26 - 39	30 - 44	39 - 48	x 1000
Elongation	20 - 50	13 - 33	8 - 32	5 - 24	% in 2 inches
Rockwell Hardness (30T)	15T 47-57	18 - 51	43 - 57	47 - 56	.020 gauge and above
	Hard	Ex. Hard	Spring	Ex. Spring	
Tensile Strength	43 - 52	47 - 56	50 - 58	52 Min.	x 1000
Yield (2% offset)	41 - 50	46 - 55	48 - 57	51 Min.	x 1000
Elongation	3 - 16	3 - 5	2 - 4	3 Max.	% in 2 inches
Rockwell Hardness (30T)	54 - 62	56 - 64	60 - 66	61 Min.	.020 gauge and above

(Properties listed above are provided for reference only)

Santa Fe Springs, CA 562-968-2100 - Fremont, CA 510-770-1500 - Phoenix, AZ 602-242-9414 - www.EJBCO.com

Contact us for Technical Support, Tight Tolerance Processing and our Large Inventory of Materials