



C510 Bronze Alloy Wire

Alloy C510 is an alloy with good strength, formability and stress relaxation characteristics and solderability. Applications include electronic parts, springs, switches, contacts and fasteners.

Mechanical Properties				
Round Wire				
TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi)		MILL LIMITS
		MIN	MAX	
Annealed		43	58	.0010 - .1285 inch
1/4 Hard	H01	60	76	
1/2 Hard	H02	80	97	
3/4 Hard	H03	96	115	
Hard	H04	108	128	
Spring .025" & under	H08	145		
Over .025" to .0625"	H08	135		
Over .0625" to .125"	H08	130		
Square Wire				
TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi)		MILL LIMITS
		MIN	MAX	
Annealed		43	58	.0100 - .0808 inch
1/4 Hard	H01	60	76	
1/2 Hard	H02	80	97	
3/4 Hard	H03	96	115	
Hard	H04	108	128	
Spring: .025" & under	H08	145		
Over .025" to .0625"	H08	135		
Over .0625" to .125"	H08	130		
Rolled Flat				
TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi)		MILL LIMITS
		MIN	MAX	
Annealed		43	58	Thickness: .0100 - .0500 inch Width: .0150 - .2500 inch
1/2 Hard	H02	58	73	
Hard	H04	76	91	
Extra Hard	H06	88	103	
Spring	H05	95	110	

Custom constructions are available, please contact the sales department

The information provided on this page is for reference purposes only.

Fisk Alloy Wire, Inc. • P.O. Box 26 • 10 Thomas Road • Hawthorne, NJ 07507 U.S.A.
Phone: 855-4PERCON (855-473-7266) • Fax (973) 427-4585 • E-mail: sales@fiskalloy.com

Physical Properties	
Melting Point (Liquidus)	1920°F
Melting Point (Solidus)	1750°F
Density	0.32 lbs/cu in
Electrical Resistivity (Annealed)	69.1 μ (cir mil/ft) @ 68°F
Electrical Conductivity (Annealed)	15% IACS @ 68°F
Thermal Conductivity (Solutionized-Aged)	40 Btu ft/sq ft hr °F @ 68°F
Coefficient of Thermal Expansion	0.0000099°F (68-572°F)
Modulus of Elasticity (Tension)	16000 ksi
Modulus of Rigidity	6000 ksi

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