



C425 Copper-Zinc-Tin Alloy Wire

Alloy C425 is a low zinc-containing alloy with good combination of tensile strength, electrical conductivity, formability and corrosion resistance. Applications include electrical springs, connectors and terminals.

Mechanical Properties				
Round Wire				
TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi)		MILL LIMITS
		MIN	MAX	
Annealed		42	52	.0010 - .1285 inch
1/4 Hard	H01	57	72	
1/2 Hard	H02	73	88	
3/4 Hard	H03	85	100	
Hard	H04	95	110	
Extra Hard	H06	105	120	
Spring	H08	115		
Square Wire				
TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi)		MILL LIMITS
		MIN	MAX	
Annealed		42	52	.0100 - .0808 inch
1/4 Hard	H01	57	72	
1/2 Hard	H02	73	88	
3/4 Hard	H03	85	100	
Hard	H04	95	110	
Extra Hard	H06	105	120	
Spring	H08	115		
Rolled Flat				
TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi)		MILL LIMITS
		MIN	MAX	
Annealed		40	50	Thickness: .0100 - .0500 inch Width: .0150 - .2500 inch
1/4 Half Hard	H01	49	59	
1/2 Hard	H02	57	69	
3/4 Hard	H03	62	74	
Hard	H04	70	82	
Extra Hard	H06	76	88	
Spring	H08	84	94	
Extra Spring	H10	92		

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)	1890°F
Melting Point (Solidus)	1850°F
Density	0.316 lbs/cu in
Electrical Resistivity (Annealed)	37 ?(cir mil/ft) @ 68°F
Electrical Conductivity (Annealed)	28% IACS @ 68°F
Thermal Conductivity (Solutionized-Aged)	69 Btu ft/sq ft hr °F @ 68°F
Coefficient of Thermal Expansion	0.0000102°F (68-572°F)
Modulus of Elasticity (Tension)	16000 ksi

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