C752 Nickel Silver 18% Alloy Wire

Introduction

Alloy C752 is an 18% nickel silver alloy combining corrosion resistance with strength and a lustrous silver color. Applications include optical frames and parts, springs, surgical instruments, jewelry, resistors and contacts.

To learn more please contact our sales department.

Fisk Alloy Wire Inc.
P.O. Box 26
10 Thomas Road N.
Hawthorne, NJ 07506 U.S.A.

Phone: (973) 825-8500
Fax: (973) 427-4585
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Chemical Composition - Limits	Chemical Composition - Nominal
Cu 63.0-66.5 (99.5 min incl named elements)	Cu 65
Ni 16.5-19.5	Ni 18
Zn rem	Zn 35
Pb 0.05 max	
Fe 0.25 max	
Mn 0.50 max	

Specifications	Fabrication Index	
ASTM B122	Soldering	5 - Excellent
ASTM B206	Hot Worked	1 - Poor
	Cold Worked	5 - Excellent
	Brazing	5 - Excellent
	Machinability	1 - Poor

Physical Properties

Annealing Range (Min)	1100 °F
Annealing Range (Max)	1400 °F
Density	0.316 lb/in³
Electrical Resistivity (Annealed)	172.9 Ω·cir-mil/ft @ 68 °F
Electrical Conductivity (Annealed)	6% IACS @ 68 °F
Thermal Conductivity	19 Btu/ft²/ft·hr/°F @ 68 °F
Coefficient of Thermal Expansion	9 per °F (68-572 °F)
Modulus of Elasticity (Tension)	18 ksi
Modulus of Rigidity (Tension)	6 ksi
Melting Point (Solidus)	1,750 °F
Melting Point (Liquidus)	1,920 °F

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Round Wire

TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi) Min	Max	MILL LIMITS (inch)
Annealed		53.0	63.0	.0010 - .1285 inch
1/4 Hard	H01	68.0	84.0	
1/2 Hard	H02	83.0	97.0	
Hard	H04	99.0	111	
Spring	H08	105		

Square Wire

TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi) Min	Max	MILL LIMITS (inch)
Annealed		53.0	63.0	.0100 - .0808 inch
1/4 Hard	H01	68.0	84.0	
1/2 Hard	H02	83.0	97.0	
Hard	H04	99.0	111	
Spring	H08	105		

Rolled Flat

TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi) Min	Max	MILL LIMITS (inch)
Annealed		53.0	63.0	Thickness: .0100 - .0500 inch Width: .0150 - .2500 inch
1/4 Hard	H01	58.0	72.0	
1/2 Hard	H02	66.0	80.0	
3/4 Hard	H03	74.0	86.0	
Hard	H04	78.0	91.0	

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Rolled Flat

TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi)		MILL LIMITS (inch)
		Min	Max	
Spring	H08	90.0	101	

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