





C752 Nickel Silver 18% Alloy Wire

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.

Mechanical Properties				
 Round Wire				
TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi)		MILL LIMITS
		MIN	MAX	
Annealed		53	63	.0010 - .1285 inch
1/4 Hard	H01	68	84	
1/2 Hard	H02	83	97	
Hard	H04	99	111	
Spring	H08	105		
 Square Wire				
TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi)		MILL LIMITS
		MIN	MAX	
Annealed		53	63	.0100 - .0808 inch
1/4 Hard	H01	68	84	
1/2 Hard	H02	83	97	
Hard	H04	99	111	
Spring	H08	105		
 Rolled Flat				
TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi)		MILL LIMITS
		MIN	MAX	
Annealed		53	63	Thickness: .0100 - .0500 inch Width: .0150 - .2500 inch
1/4 Hard	H01	58	72	
1/2 Hard	H02	66	80	
3/4 Hard	H03	74	86	
Hard	H04	78	91	
Spring	H08	90	101	
Physical Properties				
Melting Point (Liquidis)		2030°F		
Melting Point (Solidus)		1960°F		
Density		0.316 lbs/cu in		
Electrical Resistivity (Annealed)		173 ?(cir mil/ft) @ 68°F		
Electrical Conductivity (Annealed)		6% IACS @ 68°F		
Thermal Conductivity (Solutionized-Aged)		19 Btu ft/sq ft hr °F @ 68°F		
Coefficient of Thermal Expansion		0.000009°F (68-572°F)		
Modulus of Elasticity (Tension)		18000 ksi		
Modulus of Rigidity		6800 ksi		

Custom constructions are available, please contact the sales department

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

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