



C651 Silicon Bronze Alloy Wire

Introduction

Alloy C651 is a corrosion resistant copper alloy. It is primarily used as a welding rod and for mechanical fasteners and electrical connections.

To learn more please contact our [sales department](#).

C651 Silicon Bronze Alloy Wire

Chemical Composition - Limits

Chemical Composition - Nominal

Fabrication Index

Soldering

Hot Worked

Cold Worked

Brazing

Machinability

Physical Properties

C651 Silicon Bronze Alloy Wire

Round Wire

TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi)		MILL LIMITS (inch)
		Min	Max	
Annealed	O61	38.0	55.0	.0010 - .1285 inch
1/4 Hard	H01	60.0	75.0	
1/2 Hard	H02	75.0	95.0	
Hard	H04	90.0	110	
Spring	H08	100		

Square Wire

TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi)		MILL LIMITS (inch)
		Min	Max	
Annealed	O61	38.0	55.0	.0100 - .0808 inch
1/4 Hard	H01	60.0	75.0	
1/2 Hard	H02	75.0	95.0	
Hard	H04	90.0	110	
Spring	H08	100		

Rolled Flat

TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi)		MILL LIMITS (inch)
		Min	Max	
Annealed	O50	40.0	50.0	Thickness: .0100 - .0500 inch Width: .0150 - .2500 inch
1/4 Hard	H01	42.0	52.0	
1/2 Hard	H02	47.0	57.0	
Hard	H04	60.0	70.0	
Extra Hard	H06	67.0	76.0	

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Rolled Flat

TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi)		MILL LIMITS (inch)
		Min	Max	
Spring	H08	71.0	79.0	