



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
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Fabrication Index

Soldering

Hot Worked

Cold Worked

Brazing

Machinability

Physical Properties

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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	