C260 Cartridge Brass Alloy Wire

Introduction

Alloy C260 is commonly used for electrical components, electronic parts, and mechanical fasteners. The alloy has good strength but poor stress relaxation characteristics and does not make a particularly good spring material. Although it has good conductivity, the solderability of the alloy is severely impaired by its high zinc content.

To learn more please contact our sales department.

Fisk Alloy Wire Inc.
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Chemical Composition - Limits	Chemical Composition - Nominal
Cu 68.5-71.5 (99.7 min incl named elements)	Cu 70
Zn rem	Zn 30
Pb 0.07 max	
Fe 0.05 max	

Specifications	Fabrication Index	
ASTM B36	Soldering	5 - Excellent
ASTM B134	Hot Worked	3 - Good
	Cold Worked	5 - Excellent
	Brazing	5 - Excellent
	Machinability	1 - Poor

Physical Properties

Annealing Range (Min)	800 °F
Annealing Range (Max)	1400 °F
Density	0.308 lb/in³
Electrical Resistivity (Annealed)	37 Ω·cir-mil/ft @ 68 °F
Electrical Conductivity (Annealed)	28% IACS @ 68 °F
Thermal Conductivity	70 Btu/ft²/ft·hr/°F @ 68 °F
Coefficient of Thermal Expansion	11.1 per °F (68-572 °F)
Modulus of Elasticity (Tension)	16 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)
1/8 Hard	H00	50.0	65.0	.0010 - .1285 inch
1/4 Hard	H01	62.0	77.0	
1/2 Hard	H02	79.0	94.0	
3/4 Hard	H03	92.0	107	
Hard	H04	102	117	
Extra Hard	H06	115	129	
Spring	H08	120		

Square Wire

TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi) Min	Max	MILL LIMITS (inch)
1/8 Hard	H00	50.0	65.0	.0100 - .0808 inch
1/4 Hard	H01	62.0	77.0	
1/2 Hard	H02	79.0	94.0	
3/4 Hard	H03	92.0	107	
Hard	H04	102	117	
Extra Hard	H06	115	129	
Spring	H08	120		

Rolled Flat

TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi) Min	Max	MILL LIMITS (inch)

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Rolled Flat

TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi) Min	Max	MILL LIMITS (inch)
1/2 Hard	H02	57.0	67.0	.0100 - .0500 inch
3/4 Hard	H03	64.0	74.0	Width: .0150 - .2500 inch
Hard	H04	71.0	81.0	
1/4 Hard	H01	49.0	59.0	
Extra Hard	H06	83.0	92.0	Thickness:
Spring	H08	91.0	100	

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