

HM Wire International, Inc.

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Alloy C260 Cartridge Brass Alloy

Description:	The alloy has good strength but poor stress relaxation characteristics and does not make a good spring material. It has good conductivity but the solderability is impaired by the high Zinc content.
Applications:	Alloy C260 is commonly used for electrical components, electronic parts, and mechanical fasteners.

Chemical Composition

Nominal Composition:	Cu%	Zn%	Pb%	Fe%
	70	30	-	-
Composition Limits:	Cu%	Zn%	Pb%	Fe%
	68.5 -71.5	Balance	0.7 max	0.05 max

Mechanical Properties for Round and Square Wire / Flat

Temper	Tensile Strength PSI	Yeild Strength PSI	Nominal Elongation %	Tensile Strength PSI (Flat)	Yeild Strength PSI (Flat)	Nominal Elongation % (Flat)
Annealed	48-54,000	16 -23,000	56-64	44 - 53,000	11 - 22,000	54 - 66
1/8 Hard	50-65,000	46,000	35	-	-	-
1/4 Hard	62-77,000	57,000	20	49 - 59,000	40,000	43
1/2 Hard	79-94,000	65,000	8	57 - 67,000	52,000	25
3/4 Hard	92 - 107,000	70,000	6	64 - 74,000	57,000	10
Hard	102 - 117,000	70,000	5	71 - 81,000	63,000	8
Extra Hard	115 - 129,000	70,000	4	83 - 92,000	65,000	5
Spring	120,000 Min	70,000	3	91 - 100,000	65,000	3

* Flat wire sections having a 3:1 width to thickness ratio or less are by commerical convention processed to the same tensile strength values as round or square wire.

*To be used as a guideline only.

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Physical Properties

	English Units	Metric Units
Melting Point, Liquidus	1750°F	955°C
Melting Point, Solidus	1680°F	915°C
Density	0.308 lb/cu in @ 68°F	8.53 gm/cu cm
Thermal Conductivity, Annealed	70 BTU ft/sq ft-hr-°F @ 68°F	0.29 cal cm/sq cm-sec-°C @ 20°C
Coefficient of Thermal Expansion	0.0000111 per °F (68 - 572°F)	0.0000199 per °C (20 - 300°C)
Electrical Resistivity, Annealed	37 ohms (circ mil/ft) @ 68°F	6.2 microhm/cm @ 20°C
Electrical Conductivity, Annealed	28% I.A.C.S	0.162 megmho/cm @ 20 °C
Modulus of Elasticity	16,000,000 psi	11,200 kg/sq mm



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