



# HSM Wire International, Inc

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## Alloy 226 - Jewelry Bronze

**Description:** Alloy 226 is referred as Jewelry Bronze because of its rich color. It possesses a resistance to dezincification and to corrosion and stress cracking, ideal for all weather uses.

**Applications:** Jewelry, slide fasteners, zippers, and fasteners of electrical installation.

<b>Nominal Composition:</b>	<b>Cu%</b>	<b>Zn%</b>
	87.5%	12.5%

### Physical Properties

<b>Melting Point Liquidus</b>	1035°C / 1895°F
<b>Melting Point Solidus</b>	1005°C / 1840°F
<b>Density</b>	0.317 lb/cu in @ 68°F
<b>Thermal Conductivity</b>	100 BTU ft/sq ft-hr-°F @ 68°F
<b>Coefficient of Thermal Expansion</b>	0.0000103 per °F (68 - 572°F)
<b>Modulus of Rigidity</b>	6,400 ksi
<b>Electrical Conductivity, Annealed</b>	40% I.A.C.S
<b>Modulus of Elasticity (Tension)</b>	17,000 ksi

### Mechanical Properties - 0.080" diameter wire

Hardness	Tensile Strength psi	Yield Strength (0.5% EUL) psi	% Elongation in 2"
OS 050	40,000	--	44
OS 035	41,000	18,000	42
OS 025	43,000	--	40
OS 015	45,000	18,000	38
1/8 Hard	47,000	--	26
1/4 Hard	56,000	--	12
1/2 Hard	68,000	--	7
Hard	83,000	--	5
Spring	97,000	--	3

\*To be used as a guideline only.

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