



# HSM Wire International, Inc

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[www.hsmwire.com](http://www.hsmwire.com)

## Material Specifications Tungsten Wire

**Technical Description** "Commercially Pure" Tungsten Wire (Data for Small Diameter Wire)

**Chemical Composition**  
Tungsten..... 99.96%  
Molybdenum.....0.005%  
Iron.....0.002%  
Non-Volatile Residue.....0.002%

**Theoretical Density** 19.3 g/cm<sup>3</sup>

**Hardness** HV 600 - 625 or Approx. 56-57 Rockwell C

**Thermal Expansion** 4.6 ppm/°C

**Thermal Conductivity** 0.40 cal/(s. cm. °C)

**Specific Heat** 0.032 cal/g @ 25°C

**Electrical Resistivity** 5.6 microhm-cm @ 25°C

**Tensile Strength** 250 Kg/mm<sup>2</sup> or Approx. 500,000 PSI

\*\*\*To be used as a guideline only

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