



HSM Wire International, Inc

Ph: 330-244-8501 Fax: 330-244-8561

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/cm³

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/mm² or Approx. 500,000 PSI

***To be used as a guideline only

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