

# Tantalum/Tungsten Alloy Rod (Ta97.5/W 2.5)

**Formula:** Ta97.5/W 2.5

**Diameter:** 2.5mm

**Length:** 100mm

**Temper:** As Drawn

**UOM Code:** 157-466-21

**SKU:** 1000054510-group

**Product Code:** TA07-RD-000110

## Material Properties for Alloys

### Mechanical Properties

Element	Value
Elongation at break( % )	20
Modulus of elasticity( GPa )	186
Hardness - Vickers( kgf mm <sup>2</sup> )	115-160
Tensile strength( MPa )	240-310

### Thermal Properties

Element	Value
Melting point( C )	3014
Specific heat( J K <sup>-1</sup> kg <sup>-1</sup> )	141@23°C
Thermal conductivity( W m <sup>-1</sup> K <sup>-1</sup> )	55@23°C
Coefficient of thermal expansion( x10 <sup>-6</sup> K <sup>-1</sup> )	6.48@20-500°C

### Physical Properties

Element	Value
Density( gcm <sup>3</sup> )	16.66