

## Specification Sheet

### Tungsten Nanowires

(W, Purity: 99.995%, Dia: 40-50nm, L:80 $\mu$ m)

Stock No: NS6130-12-001081, CAS: 7440-33-7

<b>Product</b>	:	<b>Tungsten Nanowires</b>
Stock No	:	NS6130-12-001081
CAS	:	7440-33-7
Purity	:	99.995%
Diameter	:	40-50nm
Length	:	80 $\mu$ m
Molecular Formula	:	W
Molecular Weight	:	183.85 g/mol
Melting Point	:	3410 °C
Boiling Point	:	5900 °C
Concentration	:	2%
Vickers Hardness	:	3430 MPa
Thermal Expansion	:	(25 °C) 4.5 $\mu$ m•m <sup>-1</sup> •K <sup>-1</sup>
Young's Modulus	:	411 GPa
Tensile Strength	:	750 MPa
Thermal Conductivity	:	1.73 W/m K
Electrical Resistivity	:	5.65 $\mu$ $\Omega$ •m (27 °C)
<b>Main Inspect Verifier</b>	:	<b>Manager QC</b>

**Note:** Product Specification are subject to amendment and may change over time