

### PtW5

#### Hera 157

##### General information

Applications	spark plug electrodes
Product Forms	wire
Density, g/cm <sup>3</sup>	21.3
Melting Range, °C	1830 - 1850

##### Forming Processes

Age Hardenable	No
Material Behaviour	ductile
Forming Process	formable, machinable, can be roll clad

##### Chemical Properties

Comment	oxidation resistant to 1100°C
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##### Physical properties

Conductivity, min., % IACS	3.91
Conductivity, max., % IACS	4
Coefficient of Expansion (20 - 200 °C) (x 10 <sup>-6</sup> ), K <sup>-1</sup>	8.66
Temperature coefficient of resistance (0 - 100 °C) (x 10 <sup>-4</sup> ), annealed, K <sup>-1</sup>	6.8
Young's Modulus, GPa	181
Modulus of Rigidity, GPa	81

	Property Range
Hardness, HV	180 - 280
Tensile Strength, MPa	600 - 900
Yield Strength, MPa	400 - 900
Elongation, %	1 - 25

##### Contact

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