Platinum

Pt

General information

Applications	crucibles, casting dishes, electrodes, semi-finished products, laboratory equipment (crucibles), crystal growth crucibles, glass manufacturing, thermocouple thimbles
Product Forms	wire, sheet, tube
Density, g/cm³	21.45
Melting Point, °C	1769

Forming Processes

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

Physical properties

Conductivity, min., % IACS	15.78
Conductivity, max., % IACS	16.07
Thermal Conductivity at 20 °C, W/(m*K)	74
Young's Modulus, GPa	170
Modulus of Rigidity, GPa	66

	Annealed	Work Hardened	Property Range
Hardness, HV	42	98	42 - 98
Tensile Strength, MPa	150	330	150 - 330
Yield Strength, MPa	70	290	70 - 290
Elongation, %	40	3	3 - 40

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Looking for more data?

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Document Number: 01 | Status: 09/2021