

Gold

Au

General information

Applications	plugging contacts, switching contacts, anodes, IC carriers
Product Forms	ingots, wire, sheet, strip
Density, g/cm ³	19.3
Melting Point, °C	1064

Forming Processes

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

Chemical Properties

Corrosion Resistant	
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Physical properties

Conductivity, min., % IACS	74.78
Conductivity, max., % IACS	78.18
Thermal Conductivity at 20 °C, W/(m*K)	312
Temperature coefficient of resistance (0 - 100 °C) (x 10 ⁻⁴), annealed, K ⁻¹	37
Young's Modulus, GPa	78
Modulus of Rigidity, GPa	28

	Property Range
Hardness, HV	40 - 90
Tensile Strength, MPa	180 - 300
Yield Strength, MPa	50 - 260
Elongation, %	3 - 40

Contact

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