AuNi5

Hera 220

General information

Applications	contacts, sliding contacts, switching contacts
Product Forms	wire, strip
Density, g/cm³	17.23
Melting Range, °C	995 - 1018

Forming Processes

Age Hardenable	Yes
Material Behaviour	ductile
Forming Process	formable, machinable, can be roll clad

Chemical Properties

Comment	corrosion resistant

Physical properties

Conductivity, min., % IACS	12.55
Conductivity, max., % IACS	12.65
Thermal Conductivity at 20 °C, W/(m*K)	52
Coefficient of Expansion (20 - 100 °C) (x 10^{-6}), K^{-1}	14.91
Young's Modulus, GPa	82
Modulus of Rigidity, GPa	31

	Property Range
Hardness, HV	125 - 200
Tensile Strength, MPa	350 - 600
Yield Strength, MPa	250 - 600
Elongation, %	1 - 20

Contact
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