

### AuPd27Ag18Sn3

#### Hera 277

##### General information

Applications	slip rings, sliding contacts, contacts
Product Forms	wire
Density, g/cm <sup>3</sup>	14.03
Melting Range, °C	1190 - 1230

##### Forming Processes

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

##### Chemical Properties

Comment	corrosion resistant, oxidation resistant, wear resistant
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##### Physical properties

Conductivity, min., % IACS	5.77
Conductivity, max., % IACS	5.79
Thermal Conductivity at 20 °C, W/(m*K)	31
Coefficient of Expansion (20 - 100 °C) (x 10 <sup>-6</sup> ), K <sup>-1</sup>	14.08
Young's Modulus, GPa	124

	Annealed	Stress Relieved	Age Hardened	Property Range
Hardness, HV	120 - 220	220 - 290	280 - 350	120 - 350
Tensile Strength, MPa	500 - 750	750 - 950	900 - 1150	500 - 1150
Yield Strength, MPa	-	-	-	250 - 1000
Elongation, %	> 25	4 - 15	< 3	1 - 30

##### Contact

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