

AuAg20Cu10

Hera 238

General information

Applications	contacts, slip rings, sliding contacts
Product Forms	wire, strip
Density, g/cm ³	15.03
Melting Range, °C	865 - 895

Forming Processes

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

Chemical Properties

Comment	corrosion resistant
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Physical properties

Conductivity, min., % IACS	12.46
Conductivity, max., % IACS	12.55
Thermal Conductivity at 20 °C, W/(m*K)	66
Coefficient of Expansion (20 - 200 °C) (x 10 ⁻⁶), K ⁻¹	16.2
Young's Modulus, GPa	87
Modulus of Rigidity, GPa	37

	Annealed	Stress Relieved	Age Hardened	Property Range
Hardness, HV	120 - 170	220 - 300	280 - 340	120 - 340
Tensile Strength, MPa	400 - 600	650 - 900	850 - 1100	400 - 1100
Elongation, %	> 25	3 - 15	< 5	3 - 25

Contact

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