

PdAg30Cu14Pt10Au10 | similar to ASTM B540

Hera 648

General information

Applications	sliding contacts, contacts
Product Forms	wire, sheet, strip
Density, g/cm ³	11.8
Melting Range, °C	1130 - 1180

Forming Processes

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

Chemical Properties

Comment	oxidation resistant to 300°C
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Physical properties

Conductivity, min., % IACS	4.8
Conductivity, max., % IACS	5.2
Thermal Conductivity at 20 °C, W/(m*K)	28
Coefficient of Expansion (20 - 100 °C) (x 10 ⁻⁶), K ⁻¹	14.19
Young's Modulus, GPa	108
Modulus of Rigidity, GPa	39.7

	Annealed	Stress Relieved	Age Hardened	Property Range
Hardness, HV	190 - 240	260 - 340	330 - 400	190 - 400
Tensile Strength, MPa	750 - 850	850 - 1150	1100 - 1400	750 - 1400
Yield Strength, MPa	-	-	-	-
Elongation, %	> 15	2 - 10	< 3	2 - 20

Contact

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