

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		
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		
Temperature coefficient of resistance (0 - 100 °C) (x 10^{-4}), annealed, K^{-1}	2.8		
Young's Modulus, GPa	108		
Modulus of Rigidity, GPa	40		

	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
Elongation, %	> 15	2 - 10	< 3	2 - 20

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