Heraeus

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Or work information			
General information	alia vinga aliding contacta contacta		
Applications	slip rings, sliding contacts, contacts		
Product Forms	wire		
Density, g/cm³	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		
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^{-6}), K ⁻¹	14.08		
Temperature coefficient of resistance (0 - 100 °C) (x 10 ⁻⁴), annealed, $\rm K^{-1}$	1.8		
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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