

Resistance Alloy 60

60 Ohm, CuNi6

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Identification					
VMI No.	60 Ohm				
UNS No.	n/a				
Relevant Specifications	ASTM B122, ASTM B151				
Similar to	Resistance Alloy 60, CNR94/6, NICKAL 06R, Cu-Ni 7%, Similar to UNS C70500				
Forms	Strip	Wire	Bar	Sheet	
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Description	Low ohm electrical resistance alloy.				
Chemical Composition (%)					
Copper	94 Nominal				
Nickel	6 Nominal				
Mechanical Properties <small>(all values are for annealed temper; not intended for specification)</small>					
Tensile	40 ksi				
	275 MPa				
Yield	15 ksi				
	100 MPa				
Elongation	35 % in 2"				
	35 % in 50mm				
Hardness	25 HRB				
	70 Hv				
Physical Properties					
Density	0.3237 lb/in ³				
	8.960 g/cm ³				
Resistivity (Nominal)	60 Ohm•circ mil/ft				
	10 microOhm•cm				
Coefficient of Thermal Expansion from 68°F (20°C) to (micro-in/in-°F) (micro-m/m-K)	212°F	392°F	572°F	752°F	932°F
	100°C	200°C	300°C	400°C	500°C
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