

Resistance Alloy 30

30 Ohm, CuNi2

Identification				
VMI No.	30 Ohm			
UNS No.	C70200			
Relevant Specifications	ASTM B122, ASTM B151			
Similar to	Resistance Alloy 30, CuNi2, Niclal 02			
Forms	Strip	Wire	Bar	Sheet
	*	*		*
Description	Low ohm electrical resistance alloy.			
Chemical Composition (%)				
Copper	98 Nominal			
Nickel	2 Nominal			
Mechanical Properties <small>(all values are for annealed temper; not intended for specification)</small>				
Tensile	35 ksi			
	240 MPa			
Yield	14 ksi			
	95 MPa			
Elongation	35 % in 2"			
	35 % in 50mm			
Hardness	50 HRF			
	55 Hv			
Physical Properties				
Density	0.3241 lb/in ³			
	8.97109 g/cm ³			
Resistivity (Nominal)	30 Ohm•circ mil/ft			
	5 microOhm•cm			
Coefficient of Thermal Expansion from 68°F (20°C) to	212°F	392°F	572°F	752°F
	100°C	200°C	300°C	400°C
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<small>(micro-in/in-°F)</small>	-----	-----	-----	-----
<small>(micro-m/m-K)</small>	-----	-----	-----	-----



www.vismet.com
 65 Ballou Blvd Bristol, RI 02809
 401-253-1772 1-800-431-4113 fax: 401-253-1806