

Alloy 7158

71580, 715 Electronic Grade

Identification

VMI No.	7158			
UNS No.	C71580			
Relevant Specifications	ASTM F96			
Forms	Strip	Wire	Bar	Sheet
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Description				

Chemical Composition (%)

Copper	Remainder
Nickel (+Cobalt)	29.0-33.0
Iron	0.50 Max
Manganese	0.30 Max
Silicon	.015 Max
Carbon	0.07 Max
Aluminum	0.05 Max
Phosphorous	0.03 Max

Mechanical Properties (all values are for annealed temper; not intended for specification)

Tensile	55	ksi
	380	MPa
Yield	25	ksi
	175	MPa
Elongation	35	% in 2"
	35	% in 50mm
Hardness	47	HRB
	90	Hv

Physical Properties

Density	0.3226 lb/in ³				
	8.92634 g/cm ³				
Resistivity (Nominal)	223 Ohm•circ mil/ft				
	37 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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