

# Nickel 200

## 200 Ni

### Identification

VMI No.	200				
UNS No.	N02200				
Relevant Specifications	ASTM B162, AMS 5553				
Forms	Strip	Wire	Bar	Sheet	
	*	*	*	*	
Description	Nickel 200 is a commercially pure wrought Nickel alloy. It has good corrosion resistance and is ductile and tough. It retains much of its strength at high temperature. Nickel 200 also has high electrical and thermal conductivities.				

### Chemical Composition (%)

Nickel (+ Cobalt)	99 Min
Carbon	0.15 Max
Copper	0.2 Max
Iron	0.4 Max
Manganese	0.3 Max
Silicon	0.1 Max
Magnesium	0.05 Max

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

Tensile	>55 ksi
	>380 MPa
Yield	>15 ksi
	>100 MPa
Elongation	>40 % in 2"
	>40 % in 50mm
Hardness	<70 HRB
	<126 Hv

### Physical Properties

Density	0.3212 lb/in <sup>3</sup>
	8.9 g/cm <sup>3</sup>
Resistivity (Nominal)	51.1 Ohm•circ mil/ft
	8.5 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
	7.39    8.83    7.94    8.22    8.44
	13.3    15.9    14.3    14.8    15.2



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