

# 201 Ni, LC-Nickel 99.2

Nickel 201

## Identification

VMI No.	201			
UNS No.	N02201			
Relevant Specifications	ASTM B162, AMS 5553			
Forms	Strip	Wire	Bar	Sheet
	*	*	*	*
Description	Nickel 201 is a low carbon version of Nickel 200. Like Nickel 200, it has good corrosion resistance and is ductile and tough. The lower carbon content makes Nickel 201 especially well-suited for cold forming operations and high temperature applications.			

## Chemical Composition (%)

Nickel (+ Cobalt)	99 Min
Carbon	0.02 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	>50 ksi
	>345 MPa
Yield	>12 ksi
	>80 MPa
Elongation	>40 % in 2"
	>40 % in 50mm
Hardness	<66 HRB
	<120 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  <small>(micro-in/in-°F)</small> <small>(micro-m/m-K)</small>	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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