

## Special Metals Nickel 200

Category : Metal , Nonferrous Metal , Nickel Alloy , Pure Element

### Material Notes:

Commercially pure (99.6%) wrought nickel with good mechanical properties and resistance to a range of corrosive media. Good thermal, electrical, and magnetostrictive properties. Ferromagnetic. Used for a variety of processing equipment, particularly to maintain product purity in handling foods, synthetic fibers, and alkalis. Standard product forms are round, flats, pipe, tube, plate, sheet, forging stock, strip, and wire. Data provided by the manufacturer, Special Metals.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Special-Metals-Nickel-200.php](http://www.lookpolymers.com/polymer_Special-Metals-Nickel-200.php)

Physical Properties	Metric	English	Comments
Density	8.89 g/cc	0.321 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	462 MPa	67000 psi	Annealed
	475 MPa @Temperature 300 Â°C	68900 psi @Temperature 572 Â°F	Annealed prior to test
Tensile Strength, Yield	148 MPa	21500 psi	Annealed
	120 MPa @Temperature 300 Â°C	17400 psi @Temperature 572 Â°F	Annealed prior to test
Elongation at Break	45 %	45 %	Annealed prior to test.
	48 % @Temperature 300 Â°C	48 % @Temperature 572 Â°F	Annealed prior to test.

Thermal Properties	Metric	English	Comments
CTE, linear	13.3 Âµm/m-Â°C	7.39 Âµin/in-Â°F	
	@Temperature 20.0 - 100 Â°C	@Temperature 68.0 - 212 Â°F	
Specific Heat Capacity	0.456 J/g-Â°C	0.109 BTU/lb-Â°F	
Thermal Conductivity	70.2 W/m-K	487 BTU-in/hr-ft <sup>2</sup> -Â°F	
Melting Point	1435 - 1446 Â°C	2615 - 2635 Â°F	
Solidus	1435 Â°C	2615 Â°F	
Liquidus	1446 Â°C	2635 Â°F	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.15 %	<= 0.15 %	
Copper, Cu	<= 0.25 %	<= 0.25 %	
Iron, Fe	<= 0.40 %	<= 0.40 %	
Manganese, Mn	<= 0.35 %	<= 0.35 %	
Nickel, Ni	>= 99 %	>= 99 %	Including Cobalt
Silicon, Si	<= 0.35 %	<= 0.35 %	
Sulfur, S	<= 0.010 %	<= 0.010 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000960 ohm-cm	0.00000960 ohm-cm	
Curie Temperature	360 Â°C	680 Â°F	

## Contact Songhan Plastic Technology Co.,Ltd.

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