

Special Metals Nickel 201

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

Material Notes:

Commercially pure (99.6%) wrought nickel essentially the same as Nickel 200 but with a lower carbon content to prevent embrittlement by intergranular carbon at temperatures over 600°F (315°C). Lower carbon content also reduces hardness, making Nickel 201 particularly suitable for cold-formed items. Ferromagnetic. 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-201.php

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

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	403 MPa	58500 psi	Annealed
	350 MPa @Temperature 300 °C	50800 psi @Temperature 572 °F	Annealed prior to test
Tensile Strength, Yield	103 MPa	14900 psi	Annealed
	95.0 MPa @Temperature 300 °C	13800 psi @Temperature 572 °F	Annealed prior to test
Elongation at Break	50 %	50 %	Annealed prior to test.
	41 % @Temperature 300 °C	41 % @Temperature 572 °F	Annealed prior to test.

Thermal Properties	Metric	English	Comments
CTE, linear	13.1 µm/m-°C	7.28 µin/in-°F	
	@Temperature 20.0 - 100 °C	@Temperature 68.0 - 212 °F	
Specific Heat Capacity	0.456 J/g-°C	0.109 BTU/lb-°F	
Thermal Conductivity	79.3 W/m-K	550 BTU-in/hr-ft ² -°F	
Melting Point	1435 - 1446 °C	2615 - 2635 °F	
Solidus	1435 °C	2615 °F	
Liquidus	1446 °C	2635 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.020 %	<= 0.020 %	
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	0.00000850 ohm-cm	0.00000850 ohm-cm	
Curie Temperature	360 Â°C	680 Â°F	

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