

Special Metals Nickel 212

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

Material Notes:

Wrought nickel strengthened with an added manganese. Used for electrical and electronic applications such as lead wires, supporting components in lamps and cathode-ray tubes, and electrodes in glow-discharge lamps. The standard product form is wire. Data provided by the manufacturer, Special Metals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Special-Metals-Nickel-212.php

Physical Properties	Metric	English	Comments
Density	8.86 g/cc	0.320 lb/in ³	

Thermal Properties	Metric	English	Comments
CTE, linear	12.9 Åµm/m-Å°C	7.17 Åµin/in-Å°F	
	@Temperature 20.0 - 100 Å°C	@Temperature 68.0 - 212 Å°F	
Specific Heat Capacity	0.430 J/g-Å°C	0.103 BTU/lb-Å°F	
Thermal Conductivity	44.0 W/m-K	305 BTU-in/hr-ftÅ²-Å°F	
Melting Point	1435 - 1446 Å°C	2615 - 2635 Å°F	
Solidus	1435 Å°C	2615 Å°F	
Liquidus	1446 Å°C	2635 Å°F	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.10 %	<= 0.10 %	
Copper, Cu	<= 0.20 %	<= 0.20 %	
Iron, Fe	<= 0.25 %	<= 0.25 %	
Magnesium, Mg	<= 0.20 %	<= 0.20 %	
Manganese, Mn	1.5 - 2.5 %	1.5 - 2.5 %	
Nickel, Ni	>= 97 %	>= 97 %	Including Cobalt
Silicon, Si	<= 0.20 %	<= 0.20 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000109 ohm-cm	0.0000109 ohm-cm	

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