

## Ametek High Purity Nickel Strip 899D Annealed

Category : Metal , Nonferrous Metal , Nickel Alloy

### Material Notes:

Information supplied by Ametek Specialty Metal Products. AMETEK High Purity Nickel offers major advantages to the rechargeable battery industry, including: Lowest electrical resistivity available in pure nickel strip. Homogeneity, microcleanliness, and close composition control enhances weldability. Significantly low levels of surface oxides reduces die wear and provides excellent solderability. Excellent formability. Typical applications for rechargeable batteries: computers, cellular phones, power tools, electric vehicles, pagers, and camcorders.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ametek-High-Purity-Nickel-Strip-899D-Annealed.php](http://www.lookpolymers.com/polymer_Ametek-High-Purity-Nickel-Strip-899D-Annealed.php)

Physical Properties	Metric	English	Comments
Density	8.90 g/cc	0.322 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	85	85	
Tensile Strength, Ultimate	408 MPa	59200 psi	
Tensile Strength, Yield	128 MPa	18600 psi	
Elongation at Break	42 %	42 %	in 2 inches
Poissons Ratio	0.31	0.31	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	86.0 W/m-K @Temperature 70.0 °C	597 BTU-in/hr-ft <sup>2</sup> -°F @Temperature 158 °F	
Melting Point	1453 °C	2647 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.010 - 0.020 %	0.010 - 0.020 %	
Copper, Cu	<= 0.0050 %	<= 0.0050 %	
Iron, Fe	<= 0.050 %	<= 0.050 %	
Magnesium, Mg	<= 0.035 %	<= 0.035 %	
Manganese, Mn	<= 0.25 %	<= 0.25 %	
Nickel, Ni	99.6 %	99.6 %	

Component Elements Properties	Metric <sup>20 %</sup>	English <sup>20 %</sup>	Comments
Sulfur, S	<= 0.0010 %	<= 0.0010 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000763 ohm-cm @Temperature 20.0 °C	0.00000763 ohm-cm @Temperature 68.0 °F	
Curie Temperature	353 °C	667 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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