

## Ametek High Purity Nickel Strip 899L 1/4 Hard

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-899L-14-Hard.php](http://www.lookpolymers.com/polymer_Ametek-High-Purity-Nickel-Strip-899L-14-Hard.php)

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

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	70 - 80	70 - 80	
Hardness, Vickers	120 - 151	120 - 151	
Tensile Strength, Ultimate	379 - 483 MPa	55000 - 70100 psi	
Tensile Strength, Yield	172 - 379 MPa @Strain 0.200 %	24900 - 55000 psi @Strain 0.200 %	
Elongation at Break	20 - 35 %	20 - 35 %	typical
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	0.0050 - 0.020 %	0.0050 - 0.020 %	
Copper, Cu	<= 0.0050 %	<= 0.0050 %	
Iron, Fe	<= 0.050 %	<= 0.050 %	
Manganese, Mn	<= 0.070 %	<= 0.070 %	

<b>Nickel Ni</b> Component Elements Properties	<b>99.8 %</b> Metric	<b>99.8 %</b> English	Comments
Silicon, Si	<= 0.0010 %	<= 0.0010 %	
Sulfur, S	<= 0.0010 %	<= 0.0010 %	

<b>Electrical Properties</b>	<b>Metric</b>	<b>English</b>	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.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China