

## Technical Data Sheet

**Product :**  
**99.99% Aluminum + Ni Wire**



### Mechanical Properties:

Wire diameter	Tensile Strength (gms)	Elongation (%)	Length / spool (88 spool)
5mil, 125um	70~120	10~30	1000m
6mil, 150um	90~120	10~25	1000m
8mil, 200um	140~200	9~25	1000m
10mil, 250um	210~300	10~30	500m
12mil, 300um	300~420	10~30	500m
15mil, 375um	500~700	10~30	400m
16mil, 400um	550~800	10~30	400m
20mil, 500um	800~1100	10~30	300m

Note : The above is the general specification, actual may differ. Other specifications may be available.

### Chemical Composition:

Item	Amount	Item	Amount
Aluminum	99.99% Min.	Magnesium (Mg)	20ppm max.
Nickel (Ni)	47 - 53ppm	Silicon (Si)	10ppm max.
Copper (Cu)	20ppm max.	Iron (Fe)	10ppm max.

Total impurity elements : 100 ppm max.

### Physical Properties:

Property	Amount	Property	Amount
Density	2.7g/cm <sup>3</sup>	Thermal Conductivity @20°C	230W/m K
Melting Point	660°C		
Electrical Resistivity @20°C	2.7e-006 ohms/cm		
Electrical Conductivity @20°C	64 (%IACS)		

Shelf Live vacuum packed: 1 year (Stored @18°C to 28°C, 65%Rh max.)

*We Make Metal Work*

[www.ametek.com](http://www.ametek.com) / [www.coininginc.com](http://www.coininginc.com)

[AlSi Wire / Ribbon](#)

[Al Heavy Wire](#)

[Cu Wire](#)

[Au Wire / Ribbon](#)

[Preforms / Stamping](#)