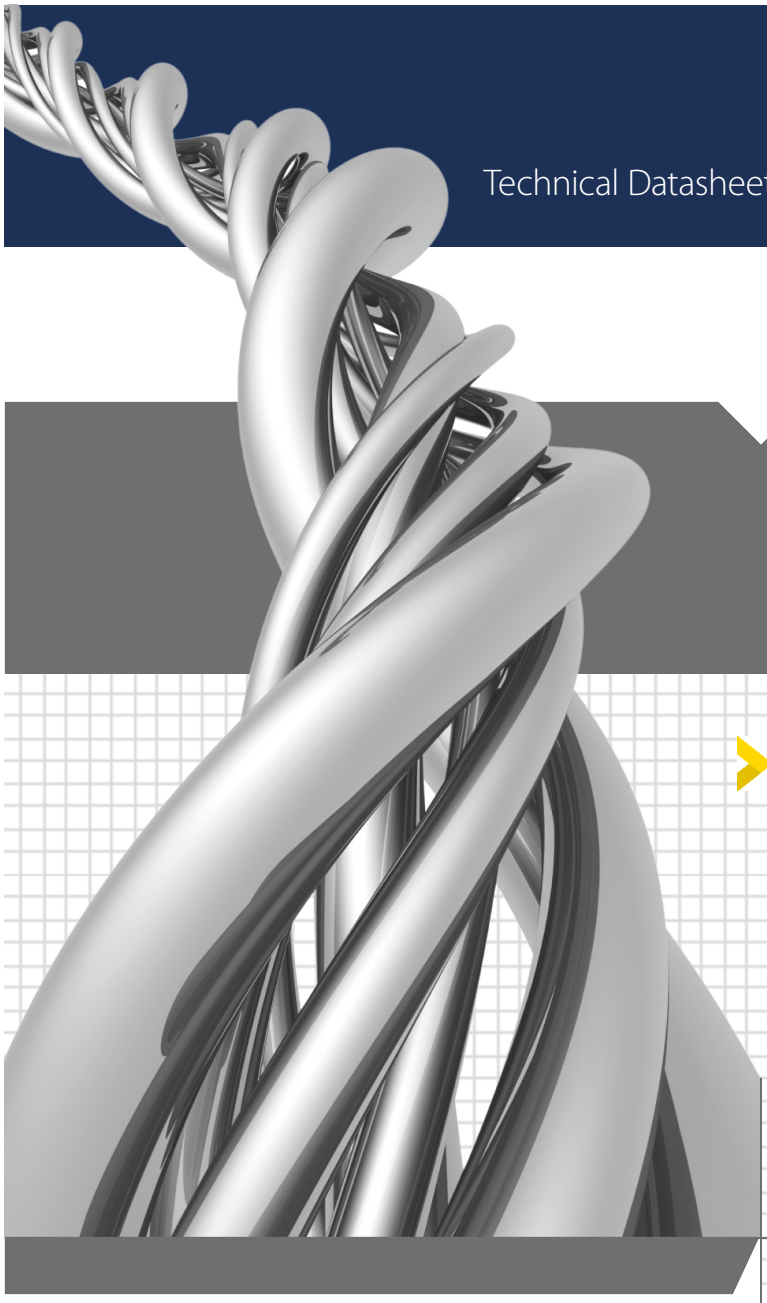


NICKEL® 201

Key Features

- Low-carbon version of Nickel 200
- Preferred to Nickel 200 for applications involving exposure to temperatures above 315 °C (600 °F)
- Resistant to various reducing chemicals & caustic alkalies
- Good magnetostrictive properties
- High electrical and thermal conductivity
- Good ductility and low work hardening rate
- Good weldability and solderability

IMPORTANT
We will manufacture to your required mechanical properties.

key advantages to you, *our customer*

RANGE
0.025mm to 21mm (.001" to .827")

3m 3t
Order 3m to 3t (10 ft to 6000 Lbs)

DELIVERY 3 WEEKS
Delivery: within 3 weeks

Wire to your spec

E.M.S available

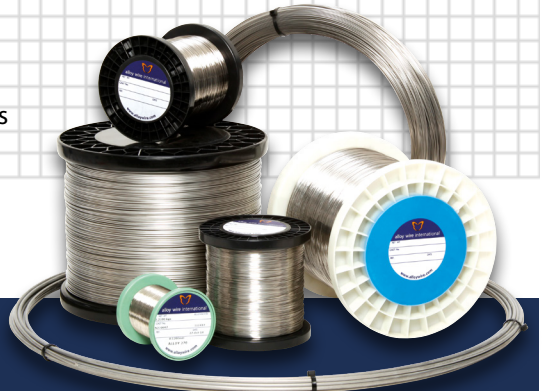
HOW CAN I HELP?
Technical support

NICKEL® 201 available in:-

- Round wire
- Bars or lengths
- Flat wire
- Shaped wire
- Rope/Strand

Packaging

- Coils
- Spools
- Bars or lengths



®Trade name of Special Metals Group of Companies.

Technical Datasheet **AWS 071 Rev.2**

NICKEL® 201

alloy wire international

Chemical Composition		
Element	Min %	Max %
Ni	99.0	-
Cu	-	0.25
Fe	-	0.40
C	-	0.02
Si	-	0.35
Mn	-	0.35
Mg	-	0.20
Ti	-	0.10
S	-	0.01
Co	-	2.00

Specifications

ASTM B160
ASTM B162
BS 3076 NA12

Designations

W.Nr. 2.4061
W.Nr. 2.4068
UNS N02201
AWS 071

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Typical Applications

- Electronic components
- Electrical components
- Lead in wires for heating elements
- Battery connections/terminals
- Chemical processing
- Aerospace components
- Food processing
- Synthetic fibre processing

Density	8.89 g/cm^3	0.321 lb/in^3
Melting Point	1446 °C	2635 °F
Coefficient of Expansion	13.1 µm/m °C (20 – 100 °C)	7.3 x 10^{-6} in/in °F (70 – 212 °F)
Modulus of Rigidity	82 kN/mm^2	11893 ksi
Modulus of Elasticity	207 kN/mm^2	30000 ksi

Electrical Resistivity	
8.5 µΩ • cm	51 ohm • circ mil/ft

Thermal Conductivity	
79.3 W/m • °C	550 btu • in/ft^2 • h • °F

Properties			
Condition	**Approx. tensile strength**		**Approx. operating temperature**
	N/mm^2	**ksi**	
Annealed	<500	<73	Tensile strength and elongation drop significantly at temperatures above 315 °C (600 °F). Service temperature is dependent on environment, load and size range.
Hard Drawn	700 – 900	102 – 131	

The above tensile strength ranges are typical. If you require different please ask.

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