alloy wire®
international

INCONEL® 601

Key Features

Outstanding resistance to oxidation & other forms of high temperature corrosion
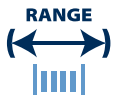
Higher mechanical properties at elevated temperatures than Inconel 600

**High temperature static applications

IMPORTANT
We will manufacture to your required mechanical properties.

key advantages
to you, *our customer*

RANGE

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

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

DELIVERY
3 WEEKS
Delivery:
within 3 weeks

Wire to your spec

E.M.S available

HOW CAN I HELP?
Technical support

INCONEL® 601 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.

Manufacturing quality, delivering reliability | **alloywire.com**

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Chemical Composition			Specifications	Key Features	Typical Applications
Element	Min %	Max %	ASTM B166	Outstanding resistance to oxidation & other forms of high temperature corrosion	Petrochemical - Processing
Ni	58.00	63.00		Higher mechanical properties at elevated temperatures than Inconel 600	Industrial Furnaces
Cr	21.00	25.00	**Designations**	**High temperature static applications	Gas Turbine -
S	-	0.015	W.Nr. 2.4851		Components
Mn	-	1.00	UNS N06601		Heat Treating -
Al	1.00	1.70	AWS 011		Equipment
C	-	0.10			
Cu	-	1.00			
Si	-	0.50			
Fe	BAL				

Density	8.11 g/cm³	0.293 lb/in³
Melting Point	1411 °C	2571 °F
Coefficient of Expansion	13.75 µm/m °C (20 – 100°C)	7.6 x 10⁻⁶ in/in °F (70 – 212 °F)
Modulus of Rigidity	81.2 kN/mm²	11777 ksi
Modulus of Elasticity	206.5 kN/mm²	29951 ksi

Heat Treatment of Finished Parts					
Condition as supplied by Alloy Wire	**Type**	**Temperature**		**Time (Hr)**	**Cooling**
		°C	°F		
Annealed or Spring Temper	Stress Relieve	480 – 870	900 – 1600	1	Air
Temperature depends on composition and amount of cold work					

Properties				
Condition	**Approx. tensile strength**		**Approx. operating temperature depending on load** and environment**	
	N/mm²	ksi	°C	°F
Annealed	700 – 900	102 – 131	-200 to +1000	-330 to +1830
Spring Temper	1200 – 1450	174 – 210	-200 to +1000	-330 to +1830

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

Static applications = *still/fixed/motionless/rigid*

AS 9100	ISO 9001	ISO 14001	ISO 45001
Aerospace & Defence	Quality Management	Environmental	Health & Safety