



## INCONEL<sup>®</sup> 600



### Key Features

Good Oxidation Resistance

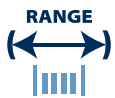
Good Corrosion Resistance at high temperatures

\*\*High temperature static applications

### IMPORTANT

We will manufacture to your required mechanical properties.

## key advantages to you, *our customer*



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



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



Delivery:  
within 3 weeks



Wire to your spec



E.M.S available



Technical support

### INCONEL<sup>®</sup> 600 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.

# INCONEL® 600



alloy wire®  
international

Chemical Composition			Specifications	Key Features	Typical Applications	
Element	Min %	Max %	AMS 5665 AMS 5687 ASTM B166 BS 3075 NA 14 BS 3076 NA 14 DTD 328A QQ-W-390	Good Oxidation Resistance Good Corrosion Resistance at high temperatures **High temperature static applications	Furnace Components Chemical Processing Food Processing Nuclear Engineering	
Ni	72.00	-				
Cr	14.00	17.00				
Fe	6.00	10.00				
Mn	-	1.00				
C	-	0.10				
Cu	-	0.50				
<b>Designations</b>						
Si	-	0.50				W.Nr. 2.4816 UNS N06600 AWS 010
S	-	0.015				
P	-	0.04				
Co	-	1.00				
Nb/Cb	-	1.00				
Ti	-	0.50				
Ta	-	0.05				
Al	-	0.35				

<b>Density</b>	8.47 g/cm <sup>3</sup>	0.306 lb/in <sup>3</sup>
<b>Melting Point</b>	1413°C	2575 °F
<b>Coefficient of Expansion</b>	13.3 µm/m °C (20 – 100 °C)	7.4 x 10 <sup>-6</sup> in/in °F (70 – 212 °F)
<b>Modulus of Rigidity</b>	75.6 kN/mm <sup>2</sup>	10965 ksi
<b>Modulus of Elasticity</b>	206 kN/mm <sup>2</sup>	29878 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	460	860	1	Air

Properties				
Condition	Approx. tensile strength		Approx. operating temperature depending on load** and environment	
	N/mm <sup>2</sup>	ksi	°C	°F
Annealed	<800	<116	-200 to +1000	-330 to +1830
Spring Temper	900 – 1450	131 – 210	-200 to +1000	-330 to +1830

Slight magnetism may occur below 120 °C (184 °F)

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

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